

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "CITY OF WEST LINN STREET/UTILITY AND SANITARY SEWER CONSTRUCTION STANDARDS", DATED JULY 14, 1988. ALL STREET, STORM SEWER AND SANITARY SEWER CONSTRUCTION THAT IS NOT ADDRESSED IN THE CITY'S STANDARDS SHALL BE IN ACCORDANCE WITH APWA STANDARDS. ALL WATER SYSTEM CONSTRUCTION THAT IS NOT ADDRESSED IN THE CITY'S STANDARDS SHALL BE IN ACCORDANCE WITH APWA STANDARDS. CONSTRUCTION SHALL ALSO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS DESIGNER AS PER THE GEOTECHNICAL REPORT BY GEODESIGN, INC., DATED JUNE 2 1999.
- WEEK DAY WORK HOURS ARE 7 AM TO 6 PM; SATURDAY, SUNDAY AND HOLIDAYS WORK HOURS ARE LIMITED TO 9 AM TO 6 PM.
- PRIOR TO ANY CONSTRUCTION, LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. WHEN ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ORGANIC AND NON-DESIRABLE MATERIALS SHALL BE REMOVED FROM THE CONSTRUCTION AREA AS DIRECTED BY THE ENGINEER.
- ALL FILL AREAS SHALL BE STRIPPED OF ORGANIC MATERIAL. FILL WILL BE PLACED IN 9-INCH LAYERS AND COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY ACCORDING TO AASHTO T-99 STANDARDS. BASE ROCK IN THE STREET SHALL BE COMPACTED TO THE SAME STANDARD. LANDSCAPE AREAS SHALL BE COMPACTED TO 90 PERCENT. THE CONTRACTOR SHALL PROVIDE DENSITY TESTING, ONE FOR EVERY 10,000 SQUARE FEET OF AREA AND FOR EVERY 2 FEET OF FILL PLACED. COMPACTION REPORTS FROM A REPUTABLE TESTING LAB SHALL BE SUPPLIED TO THE ENGINEER.
- CONTRACTOR SHALL LEAVE ALL AREAS OF THE PROJECT FREE OF DEBRIS AND UNUSED CONSTRUCTION MATERIALS.
  - AREAS TO BE LANDSCAPED SHALL BE SMOOTHED AND LEFT TO THE GRADES INDICATED ON THE GRADING PLAN, PLUS OR MINUS 0.1 FOOT.
  - ALL DISTURBED AREAS NOT TO BE LANDSCAPED SHALL BE SEED PER EROSION CONTROL NOTES ON SHEET 4 TO PREVENT EROSION.
- ANY CHANGES FROM THE APPROVED PLANS SHALL BE REQUESTED BY THE CONTRACTOR IN WRITING. THE DESIGN ENGINEER AND THE CITY OF WEST LINN'S PROJECT ENGINEER MUST APPROVE THE CHANGE PRIOR TO ITS IMPLEMENTATION. COMPLEXITY OF MODIFICATION WILL DETERMINE IF REVISED PLANS ARE REQUIRED.
- STANDARD SIDEWALK RAMPS SHALL BE BUILT ACCORDING TO APWA DRAWING NO. 206
- THE FOLLOWING CITY OF WEST LINN DETAILS SHALL BE USED AS SPECIFIED IN THE PLANS:  
 STANDARD MANHOLE - DWG. NO. MH-209  
 SHALLOW MANHOLE - DWG. NO. MH-210  
 MANHOLE FRAME & COVER - DWG. NO. MH-212  
 GUTTER INLET 2 1/2 A - DWG. NO. GI-214  
 GUTTER INLET COVER - DWG. NO. GI-215  
 CURB AND GUTTER - DWG. NO. CG-265  
 CONCRETE SIDEWALK - DWG. NO. CS-270  
 SIDEWALK RAMP - DWG. NO. CS-271  
 PEDESTRIAN PATH - DWG. NO. PP-272  
 STREET BARRICADE TYPE III - DWG. NO. SB-276  
 FIRE BEDDING & BACKFILL DETAILS - DWG. NO. PB-280  
 FIRE HYDRANT - DWG. NO. FH-300  
 BLOWOFF - DWG. NO. BO-301  
 THRUST BLOCKING - DWG. NO. TB-302  
 WATER METER - DWG. NO. WM-304
- DURING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL CONFORM TO CLACKAMAS COUNTY EROSION CONTROL STANDARDS AND WILL BE STRICTLY ENFORCED.
- ALL AGGREGATE MATERIAL SHALL CONFORM TO APWA STANDARDS.
- IN CASE OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE FIGURES WRITTEN THEREON, THE FIGURES SHALL BE DEEMED TO GOVERN.
- THE DEVELOPER WILL SUPPLY ONE SET OF STAKES FOR EACH CONSTRUCTION OPERATION AS DESCRIBED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE OR REPRESENTATIVES WHO ARE AUTHORIZED TO REQUEST STAKES. STAKING REQUESTS FROM AUTHORIZED REPRESENTATIVE SHALL BE MADE TO DAVE LIDEN AT OTAK (699-2401) AT LEAST 24 HOURS IN ADVANCE OF THE NEED FOR SAID STAKES. ONLY REQUESTS FROM AUTHORIZED REPRESENTATIVES WILL BE HONORED. ANY RESTAKING WILL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- AFTER CONSTRUCTION A LETTER FROM AN ENGINEER REGISTERED IN OREGON SHALL BE SUPPLIED WHICH CERTIFIES THAT THE IMPROVEMENTS WERE CONSTRUCTED PER THE PLANS AND SPECIFICATIONS.
- LANDSCAPING CONTRACTOR SHALL PROVIDE AN 18 MONTH MAINTENANCE AGREEMENT.

**STORM/SANITARY SEWERS:**

- MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WEST LINN'S STANDARD PLANS.
- PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0" CRUSHED ROCK COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-99.
- TRENCH BACKFILL MATERIAL IN PAVED AREAS SHALL BE CLASS B GRANULAR BACKFILL COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-99.
- TRENCH BACKFILL MATERIAL IN UNPAVED AREAS SHALL BE CLASS A NATIVE BACKFILL COMPACTED TO 92 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-99.
- ALL PVC SANITARY SEWER PIPE SHALL CONFORM TO ASTM D3034, SDR35 SPECIFICATIONS.
- ALL PVC STORM SEWER PIPE SHALL BE "SUPER-RIB" AND CONFORM TO ASTM D1784.
- SANITARY SEWER SERVICES SHALL BE 4" PVC WITH A MINIMUM SLOPE OF 2%. STORM SEWER SERVICES SHALL BE 6" WITH A MINIMUM SLOPE OF 2%.
- PRIOR TO ACCEPTANCE, ALL PUBLIC SANITARY SEWERS SHALL BE TV, PRESSURE, AND DEFLECTION TESTED IN ACCORDANCE WITH THE CITY OF WEST LINN'S REQUIREMENTS. ALL PUBLIC STORM SEWERS SHALL BE TV AND DEFLECTION TESTED. ALL TESTS TO BE COMPLETED AND APPROVED PRIOR TO CONNECTION TO THE CITY SYSTEM.
- MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. FINAL ELEVATIONS SHALL BE SET TO MATCH CONSTRUCTED FINISH GRADE.

**WATERLINES:**

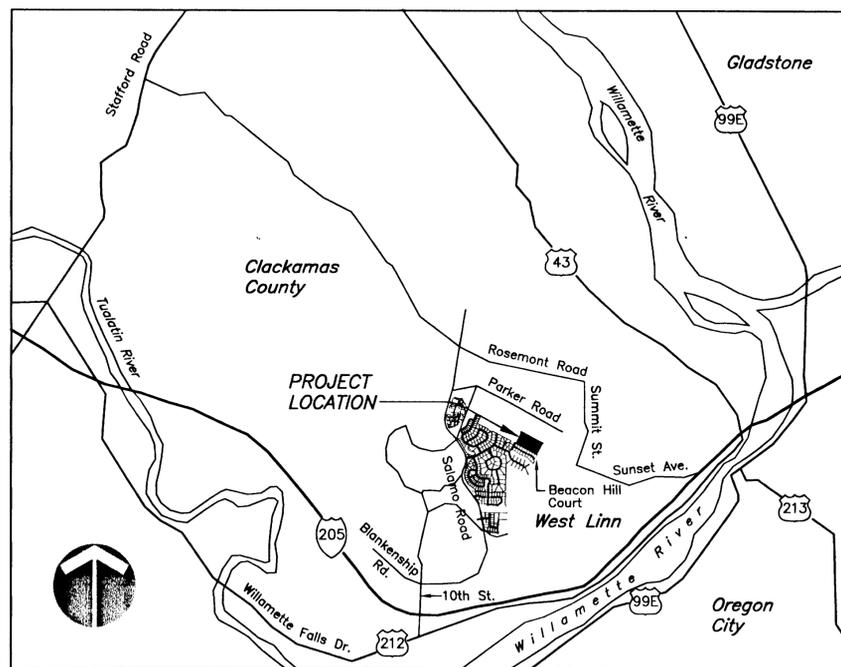
- ALL WATER PIPE AND FITTINGS SHALL BE DUCTILE IRON CLASS 52 AND CONFORM TO STANDARD CITY SPECIFICATIONS AND DETAILS.
- PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE 3/4"-0" CRUSHED ROCK COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-99.
- TRENCH BACKFILL MATERIAL IN PAVED AREAS SHALL BE CLASS B GRANULAR BACKFILL COMPACTED TO 95 PERCENT RELATIVE MAXIMUM DENSITY, AASHTO T-99.
- WATER SERVICES ARE TO BE 1" COPPER, AND THERE SHALL BE NO DOUBLE SERVICES.
- FIRE HYDRANTS SHALL BE MUELLER CENTURION MOLA-428 OR CLOW MEDALLION F-2545 ONLY. HYDRANT ASSEMBLY SHALL BE ONE UNIT ONLY. NO EXTENSIONS ARE ALLOWED. SEE DETAIL.
- SANITARY SEWER LINES SHALL CROSS BENEATH WATER LINES.
- WATERLINES SHALL BE PRESSURE TESTED FOLLOWING COMPLETION. PRESSURE TESTS AT THE LOWEST POINT IN TEST SECTION SHALL BE IN ACCORDANCE TO THE CITY OF WEST LINN'S STANDARDS WITH A MINIMUM TEST PRESSURE OF 180 PSI. LEAKAGE MUST BE WITHIN ALLOWABLE LEAKAGE LIMITS. SERVICE LINES WILL ALSO BE TESTED TO THE METER LOCATION IF INSTALLED BY THE CONTRACTOR.
- PRIOR TO BEING INTO SERVICE, THE WATERLINE SHALL BE FLUSHED, STERILIZED AND FLUSHED AGAIN ALL IN ACCORDANCE WITH STANDARD METHODS OF THE HEALTH DIVISION, DEPARTMENT OF HUMAN RESOURCES, STATE OF OREGON.
- PRIOR TO ALLOWING HUMAN CONSUMPTION OF THE WATER FROM THE NEW WATERLINE, A SAMPLE SHALL BE TAKEN AND TESTED FOR BACTERIOLOGICAL QUALITY. RESULTS MUST BE WITHIN STANDARDS OF THE STATE OF OREGON.
- CONCRETE THRUST BLOCKING SHALL BE PROVIDED AT ALL WATERLINE FITTINGS AS REQUIRED BY CITY STANDARDS. BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH AND CLEAR OF JOINT ACCESSORIES. BEARING AREA OF THRUST BLOCK SHALL BE COMPUTED ON THE BASIS OF ALLOWABLE SOIL BEARING PRESSURE.
- MINIMUM COVER OVER WATERLINES IS TO BE 36" AS MEASURED FROM FINISH GRADE TO TOP OF PIPE. MINIMUM VERTICAL SEPARATION BETWEEN WATERLINE AND SANITARY SEWER AT A CROSSING IS 18". SANITARY SEWER AT WATERLINE CROSSINGS WITH LESS THAN THE MINIMUM VERTICAL SEPARATION SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH WATERTIGHT JOINTS. IN SUCH CASES THE 18-FOOT LENGTH OF SANITARY SEWER SHALL BE CENTERED AT THE CROSSING.
- ALL WATER SERVICES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 2' AT THE MAINLINE.

# ROGERFIELD SUBDIVISION PHASE 1 - 10 LOTS

## CITY OF WEST LINN

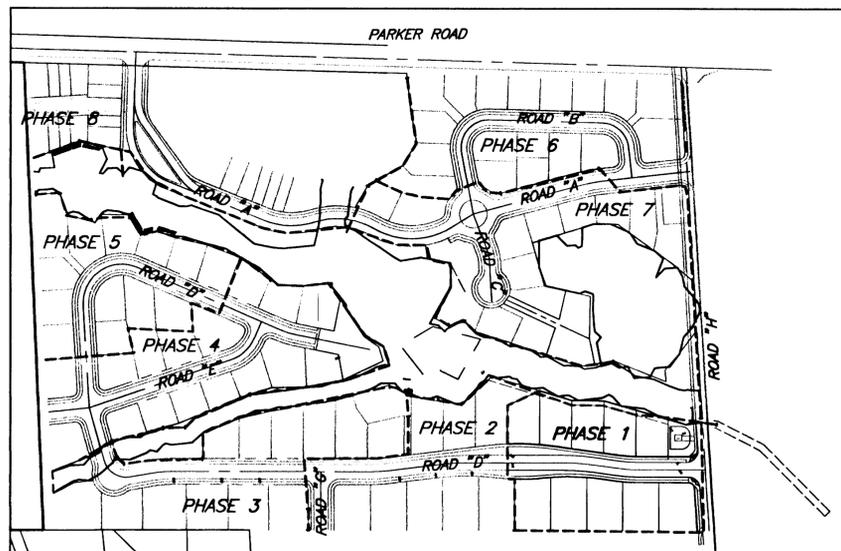
### SITE DEVELOPMENT PLANS (CITY OF WEST LINN FILE NO. SUB-99-02)

**PROJECT TEAM**  
 - CLIENT: SAM & BEVERLY SABO, ED SOLARI  
 - ENGINEER: OTAK  
 PROJECT MANAGER - M. FARES KEKHIA 635-3618  
 TEL: 503-635-3618  
 FAX: 503-635-5395



**VICINITY MAP**

NOT TO SCALE



**PROJECT MAP**

NOT TO SCALE

**SHEET INDEX**

- TITLE SHEET
- 
- TYPICAL STREET SECTIONS
- GRADING & EROSION CONTROL PLAN
- GRADING AND EROSION CONTROL NOTES AND DETAILS
- STREET AND STORM DRAINAGE PLAN
- STREET AND STORM DRAINAGE PROFILES
- WATER QUALITY FACILITY PLAN AND DETAILS
- SANITARY SEWER & WATER PLAN
- SANITARY SEWER AND WATER PROFILES
- DETAILS SHEET
- DETAILS SHEET
- WATER QUALITY FACILITY PLANTING PLAN

**BENCH MARK**

BENCH MARK: CITY OF WEST LINN BENCH MARK "B" IS 93.5' EAST AND 17.0' SOUTH OF EDGE OF PAVEMENT FROM 5-WAY INTERSECTION OF ROSEMONT/SANTA ANA. 3" CAP ON PIPE WITH YELLOW WATER WORKS LTD. ELEV.= 667.22.

**LOCATING EXISTING UTILITIES**

--- 48 HOUR NOTICE REQUIRED PRIOR TO EXCAVATION ---

ONE CALL SYSTEM (GENERAL TELEPHONE, NORTHWEST NATURAL GAS, U.S. WEST, U.S. SPRINT)	246-6699
PORTLAND GENERAL ELECTRIC	643-5454, EXT. 312, 313, 314
TCI CABLE TELEVISION	243-7491
REPAIR EMERGENCIES	
NORTHWEST NATURAL GAS GENERAL TELEPHONE	226-4211, EXT. 4413 629-2121
CITY OF WEST LINN WATER OPERATIONS SANITARY SEWER OPERATIONS	656-3535 ---

THE CONTRACTOR, IN LOCATING AND PROTECTING UNDERGROUND UTILITIES, MUST COMPLY WITH THE REGULATIONS OF O.R.S. 757.541 TO 757.571

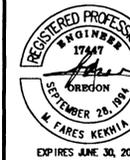
ATTENTION EXCAVATORS: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of these rules from the Center by calling (503) 232-1987. If you have any questions about the rules, you may contact the call center. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL (503) 246-6699.

These As-built Plans were compiled from survey data, data collected from others, and periodic observation during construction. It is suggested that these plans be used in conjunction with field verification of location and elevations of improvements in question. These plans are an accurate record of public improvements to the best of my information, knowledge and belief.

Signature \_\_\_\_\_  
 Date \_\_\_\_\_

**"AS-BUILT"**  
 DATE \_\_\_\_\_ BY \_\_\_\_\_

11/05/99  
 Date  
 G.S.  
 Designed  
 G.S.  
 Drawn  
 MKK 11/30/99  
 Checked By Date



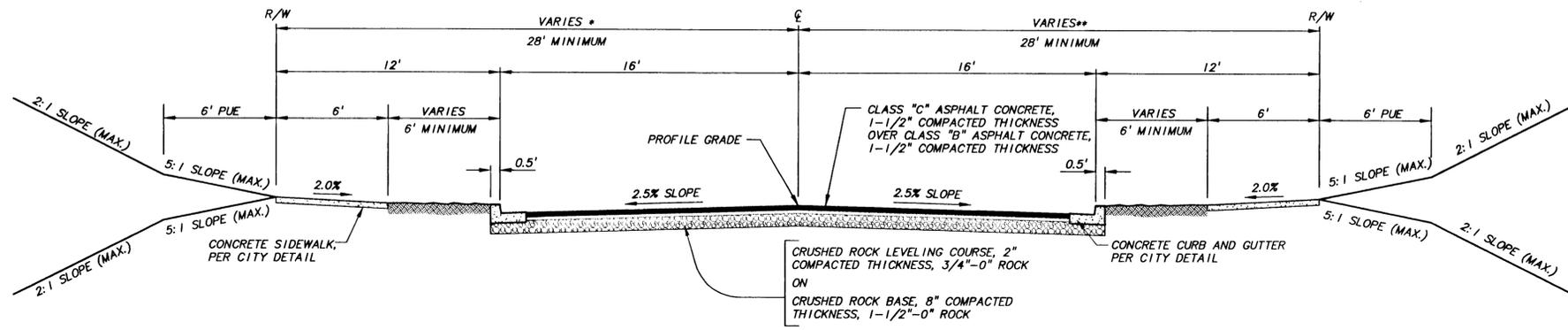
**TANNER BASIN L.L.C.**  
 4096B WARD ROAD  
 MONMOUTH, OR 97361  
 Phone: (503) 655-6044  
 Fax: (503) 557-9281

**ROGERFIELD SUBDIVISION**  
 PHASE 1  
 CITY OF WEST LINN, OREGON  
 COVER SHEET



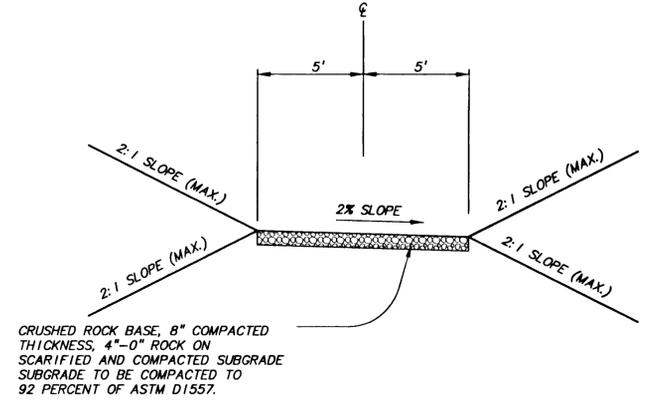
17355 SW Boones Ferry Rd.  
 Lake Oswego, Oregon 97035  
 Phone: (503) 635-3618  
 FAX: (503) 635-5395

L9819  
 Project No.  
 DB19S001  
 File No.  
 1 of 13  
 Sheet No.  
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**SOLARI DRIVE**  
(Sta. 19+48.59 to Sta. 23+80.86)

\*(ROW Varies from 40.81' at Sta. 19+72.09 to 28.00' at Sta. 21+38.08) \*\*\*(ROW Varies from 35.66' at Sta. 19+77.82 to 28.00' at Sta. 21+55.93)

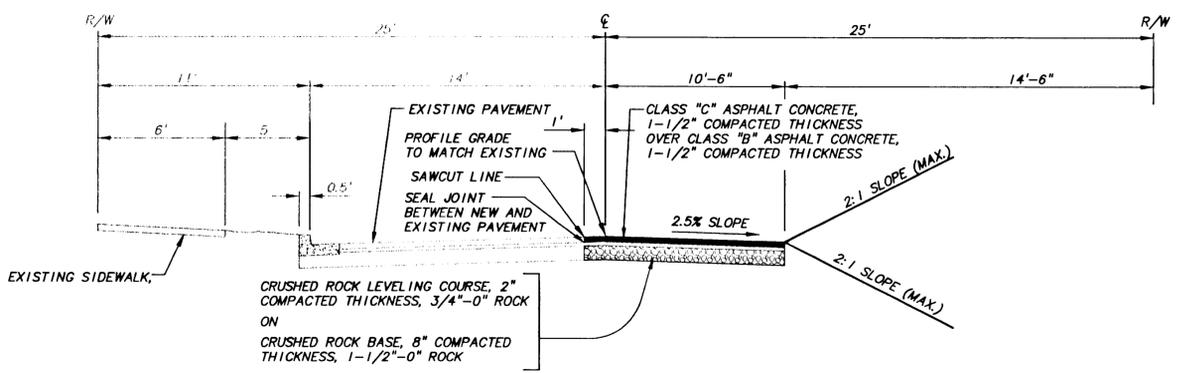


**MAINTENANCE ACCESS ROAD**

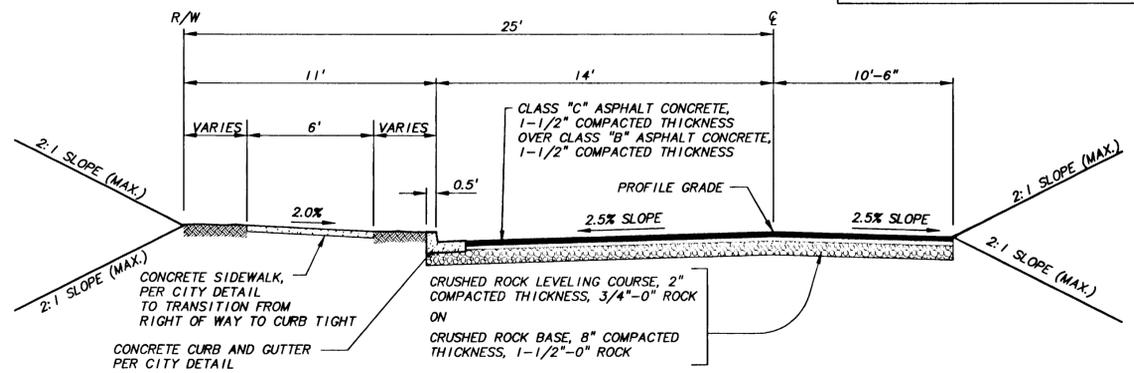
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Signature \_\_\_\_\_  
Date \_\_\_\_\_

**AS-BUILT**  
DATE \_\_\_\_\_ BY \_\_\_\_\_

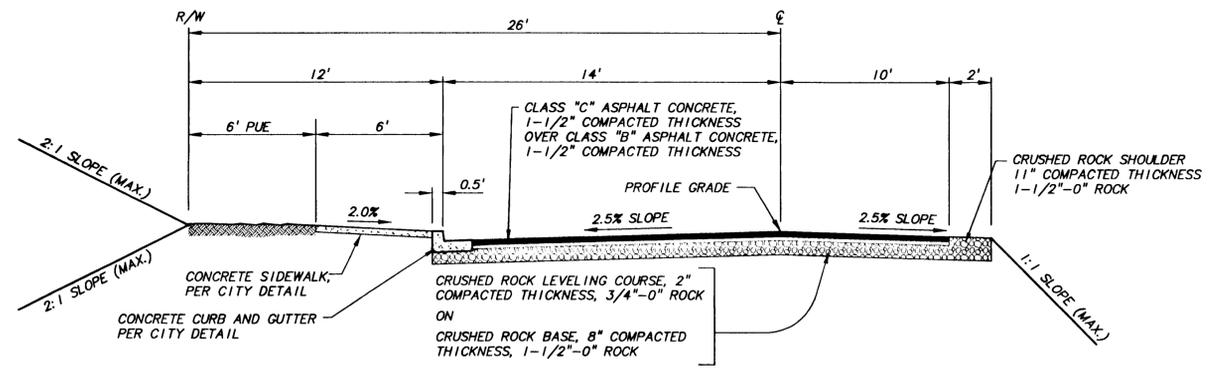


**SABO DRIVE**  
(Sta. 0+63.42 to Sta. 1+65.00)



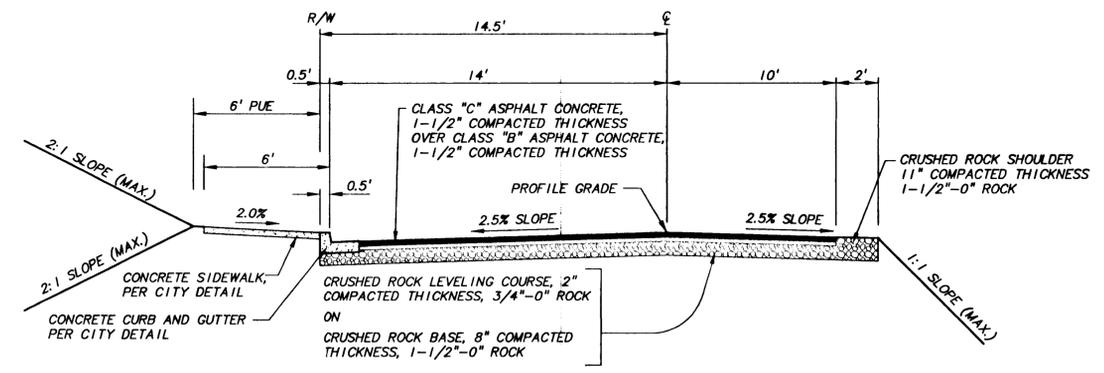
**SABO DRIVE**  
(Sta. 1+65.00 to Sta. 1+92.40)

**NOTE:**  
AS PER THE RECOMMENDATIONS OF THE SOILS ENGINEER IF THE PROJECT IS CONSTRUCTED IN WET WEATHER THE STREET SECTION SHALL CONSIST OF:  
CRUSHED ROCK LEVELING COURSE, 2" COMPACTED THICKNESS, 3/4"-0" ROCK ON  
CRUSHED ROCK BASE, 10"-16" COMPACTED THICKNESS, 1-1/2"-0" ROCK



**SABO DRIVE**  
(Sta. 1+92.40 to Sta. 3+23.64)

SLOPES STEEPER THAN 2:1 SHALL BE CONSTRUCTED TO THE RECOMMENDATIONS OF THE SOILS ENGINEER



**SABO DRIVE**  
(Sta. 3+23.64 to Sta. 4+25.00)

SLOPES STEEPER THAN 2:1 SHALL BE CONSTRUCTED TO THE RECOMMENDATIONS OF THE SOILS ENGINEER

11/05/99  
Date  
Designed G.S.  
Drawn G.S.  
Checked By Date  
REGISTERED PROFESSIONAL ENGINEER  
17447  
SEPTEMBER 28, 1988  
K. FARES KERHIA  
EXPIRES JUNE 30, 2001

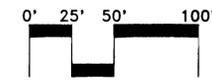
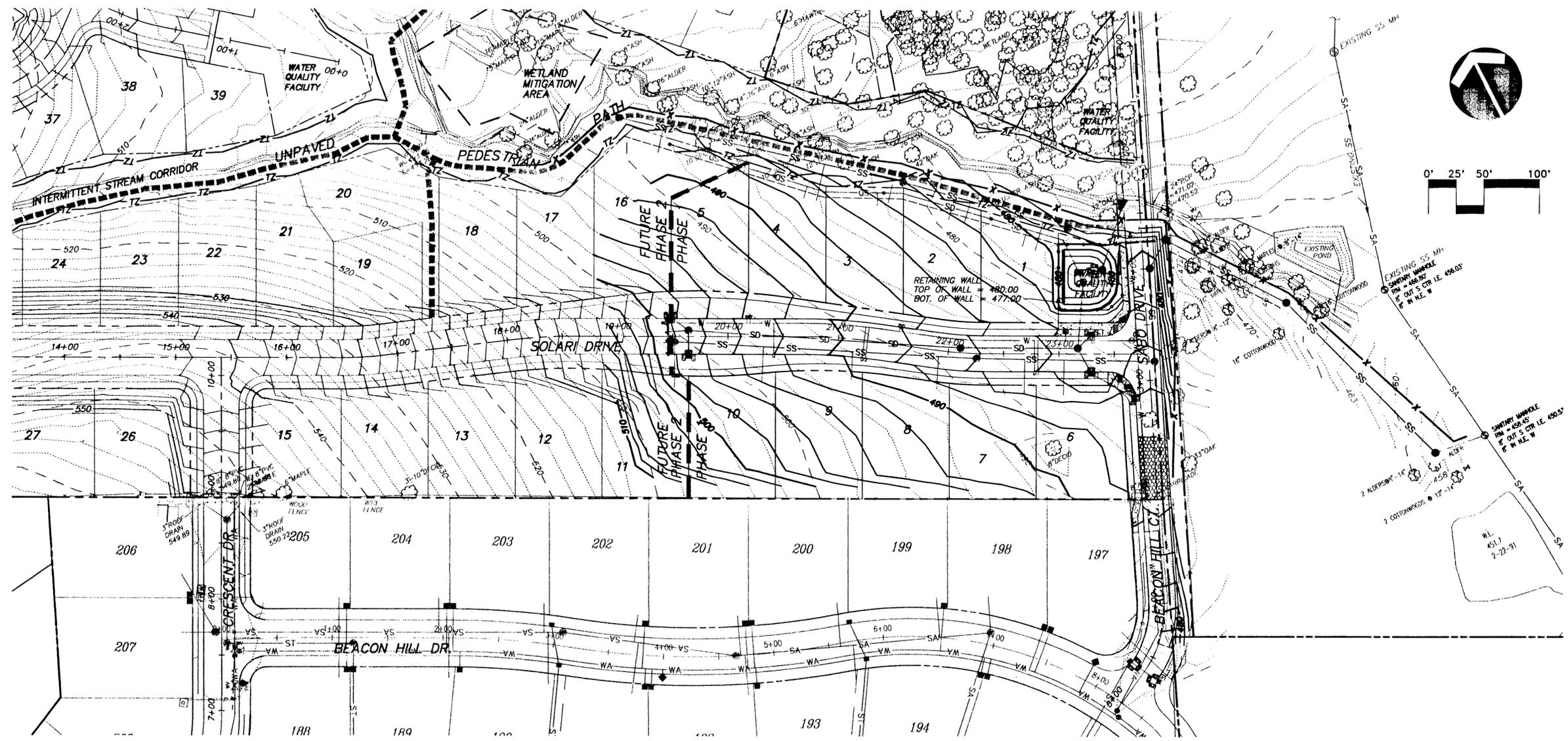
**TANNER BASIN L.L.C.**  
40968 WARD ROAD  
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Fax: (503) 557-9281

**ROGERFIELD SUBDIVISION**  
PHASE 1  
CITY OF WEST LINN, OREGON  
TYPICAL STREET SECTIONS

**otak**  
Incorporated  
17355 SW Boones Ferry Rd.  
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**LEGEND**

- EXISTING 2' CONTOUR
- 620 --- EXISTING 10' CONTOUR
- TZ- TRANSITION ZONE BOUNDARY
- - - PHASE LINE
- PROPOSED 2' CONTOUR
- 620 --- PROPOSED 10' CONTOUR
- X- SEDIMENT FENCE
- - - CLEARING LIMITS
- BIOFILTER BAG SWALE PROTECTION
- BIOFILTER BAG INLET PROTECTION
- ▨ GRAVEL CONSTRUCTION ENTRANCE

*These As-built Plans were compiled from survey data, data collected from others, and periodic observation during construction. It is suggested that these plans be used in conjunction with field verification of location and elevations of improvements in question. These plans are an accurate record of public improvements to the best of my information, knowledge and belief.*

Signature \_\_\_\_\_  
Date \_\_\_\_\_

**AS-BUILT**  
DATE \_\_\_\_\_ BY \_\_\_\_\_

11/05/99  
Date  
G.S.  
Designed  
G.S.  
Drawn  
Checked By Date  
  
REGISTERED PROFESSIONAL ENGINEER  
17447  
OREGON  
SEPTEMBER 26, 1991  
FARES KERKHAH  
EXPIRES JUNE 30, 2001

**TANNER BASIN L.L.C.**  
4096B WARD ROAD  
MONMOUTH, OREGON 97361  
Phone: (503) 655-6044  
Fax: (503) 557-9281

**ROGERFIELD SUBDIVISION**  
PHASE 1 OF WEST LINN, OREGON  
GRADING AND EROSION CONTROL PLAN



17355 SW Boones Ferry Rd.  
Lake Oswego, Oregon 97035  
Phone: (503) 635-3618  
FAX: (503) 635-5396

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File No.  
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**EROSION AND POLLUTION CONTROL MEASURES**

**EROSION CONTROL GENERAL NOTES**

APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THESE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.

AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. MUD, DIRT, DEBRIS SHALL NOT BE ALLOWED ON PUBLIC ROADS. EXISTENCE OF SUCH SHALL BE CAUSE FOR STOPPAGE, AND IMMEDIATE CLEANUP.

**EROSION CONTROL MEASURES FOR DISTURBED AREAS**

ALL DISTURBED SLOPES GREATER THAN 3:1 THAT HAVE BEEN GRADED AND COMPACTED SHALL BE HYDROSEEDING NO LATER THAN SEPTEMBER 1ST USING THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE AUTHORIZED BY THE CITY. AFTER SEPTEMBER 1ST THE CITY MAY REQUIRE OTHER MEANS OF RE-VEGETATION OF DISTURBED AREAS.

SEEDING SHALL NOT BE DONE DURING WINDY WEATHER OR WHEN THE GROUND IS FROZEN, EXCESSIVELY WET OR OTHERWISE UNUSABLE.

SEED MAY BE SOWN BY THE FOLLOWING METHOD:

HYDROSEEDING WHICH UTILIZES WATER AS THE CARRYING AGENT, AND MAINTAINS CONTINUOUS AGITATION THROUGH PADDLE BLADES. IT SHALL HAVE AN OPERATING CAPACITY SUFFICIENT TO AGITATE, SUSPEND AND MIX INTO A HOMOGENEOUS SLURRY OF THE SPECIFIED AMOUNT OF SEED AND WATER OR OTHER MATERIAL. DISTRIBUTION AND DISCHARGE LINES SHALL BE LARGE ENOUGH TO PREVENT STOPPAGE AND SHALL BE EQUIPPED WITH A SET OF HYDRAULIC DISCHARGE SPRAY NOZZLES WHICH WILL PROVIDE A UNIFORM DISTRIBUTION OF THE SLURRY.

GRASS SHALL BE SEED AT THE RATE OF NOT LESS THAN ONE HUNDRED (100) POUNDS PER ACRE. SEED MIX SHALL INCLUDE:

DWARF GRASS MIX (LOW HEIGHT, LOW MAINTENANCE)  
 DWARF PERENNIAL RYEGRASS, 80% BY WEIGHT  
 CREEPING RED FESCUE, 20% BY WEIGHT  
 APPLICATION RATE 100 POUNDS MIN. PER ACRE

STANDARD HEIGHT GRASS MIX  
 ANNUAL RYEGRASS, 40% BY WEIGHT  
 TURF-TYPE FESCUE, 60% BY WEIGHT  
 APPLICATION RATE 100 POUNDS MIN. PER ACRE

FERTILIZER FOR GRASS SEED SHALL BE PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENT AREAS WITHIN 50 FEET OF WATER BODIES AND WETLANDS MUST USE A NON-PHOSPHORUS FERTILIZER

THE EXACT TIME FOR SEEDING WILL BE DETERMINED BY ACTUAL WEATHER CONDITIONS. THE NORMAL SATISFACTORY PERIOD FOR SEEDING SHALL BE CONSIDERED BETWEEN MARCH 1 TO JUNE 1 UNLESS OTHERWISE AUTHORIZED BY THE CITY. CONTRACTOR MAY PERFORM SEEDING OPERATIONS FROM JUNE 1 TO SEPTEMBER 1 PROVIDED THAT HE WATERS THE NEW GRASS TO THE SATISFACTION OF THE OWNER.

HYDROSEEDING SHALL BE INITIATED AS SOON AS POSSIBLE AFTER GRADING OCCURS ON THE SITE.

THE CITY INSPECTOR MUST BE PRESENT WHEN SEEDING AND MULCH ARE APPLIED. IN AREAS OF STEEP SLOPES A TACTIFER AGENT OR NETTING AND ANCHORS SHALL BE USED. ONCE THE HYDROSEEDING HAS BEEN APPLIED TO THE BARE TOP SOIL A MULCH LAYER SHALL BE UNIFORMLY APPLIED AT A DEPTH OF 2-3 INCHES.

HIGH QUALITY MIXED YARD DEBRIS COMPOST MATERIAL SHALL BE USED FOR A MULCH LAYER. FOR SLOPES LESS THAN 20% A FINE TO MEDIUM RANGE COMPOST SHALL BE USED, FOR GREATER THAN 20% A MORE COARSE COMPOST MULCH SHALL BE USED.

STRAW MULCH ALTERNATIVE CAN BE USED IF ANCHORED FIRMLY INTO THE GROUND BY HAND OR ROLLERS, GLEAT TACKS, ETC. AND IF STRAW IS WEED FREE. SIMPLY SPREADING THE MATERIAL OUT OVER THE SITE IS NOT ACCEPTABLE.

WATER MUST BE PROVIDED DURING DRY MONTHS SO SEEDING IS GIVEN ADEQUATE MOISTURE TO ESTABLISH GRASS. AREAS WHICH FAIL TO ESTABLISH COVER MUST BE RE-SEED AS SOON AS SUCH AREAS ARE IDENTIFIED.

WHEN DELAYS IN OPERATIONS CARRY THE WORK BEYOND THE MOST FAVORABLE PLANTING SEASON, OR WHEN WEATHER CONDITIONS ARE SUCH THAT SATISFACTORY RESULTS ARE NOT LIKELY TO BE OBTAINED FOR ANY STAGE OF THE SEEDING OPERATIONS, THE CONTRACTOR SHALL COVER THE BARE AREAS WITH MULCH AND SHALL SUSPEND THE SEEDING WORK AND IT SHALL BE RESUMED ONLY WHEN THE DESIRED RESULTS ARE LIKELY TO BE OBTAINED. IF OPERATIONS EXTEND PAST OCTOBER 1ST, CONTACT THE CITY OF LAKE OSWEGO.

THE CONTRACTOR SHALL PROTECT ALL SEEDING AREAS FROM EROSION UNTIL FINAL INSPECTION AND ACCEPTANCE HAS BEEN MADE. AREAS DAMAGED BY EROSION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

GRASS COVER SHOULD BE ESTABLISHED BEFORE EROSION CONTROL MEASURES ARE REMOVED FROM THE SITE.

ADDITIONAL TEMPORARY EROSION CONTROL (DURING CONSTRUCTION): BIO-FILTER BAGS WILL BE PLACED AT THE TOE OF ALL MAJOR FILL SLOPES WHEN NECESSARY, TO PREVENT SILT FROM WASHING INTO EXISTING DRAINAGE WAYS. (SILTATION BARRIER)

TEMPORARY DITCHES WILL BE CONSTRUCTED AS NECESSARY TO ASSURE DRAINAGE IS CHANNELLED TO THE FACILITIES BEING PROVIDED.

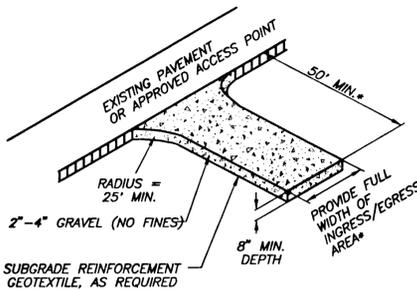
BIO-FILTER BAGS WILL BE REQUIRED AT ALL STORM DRAINAGE INLETS UNTIL ROCKING OF STREET IS COMPLETED AND DISTURBED SLOPES STABILIZED BY HYDROSEEDING.

**NOTES FOR SEDIMENT FENCE**

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.

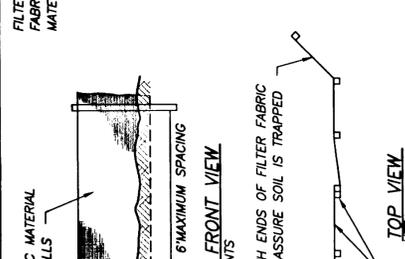
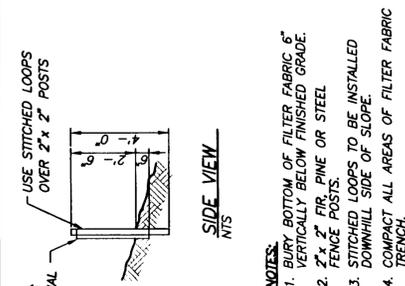
THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES.

A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE BY 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.

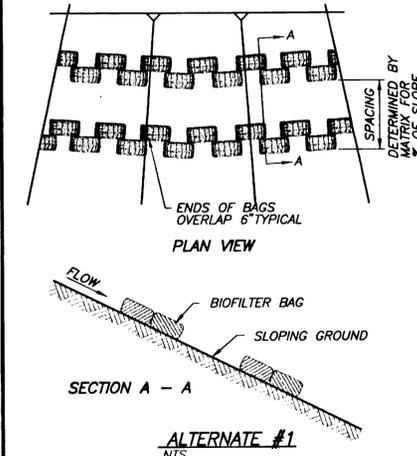


\*20' MIN. FOR SINGLE FAMILY AND DUPLEX RESIDENTIAL

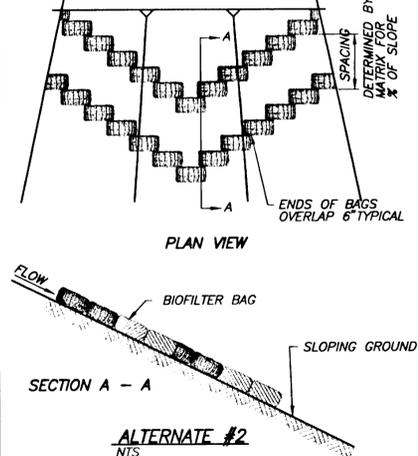
**GRAVEL CONSTRUCTION ENTRANCE**



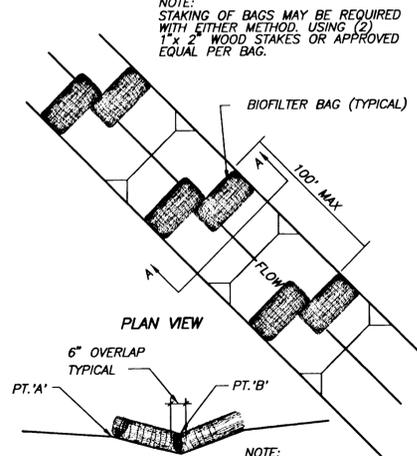
**SEDIMENT FENCE**



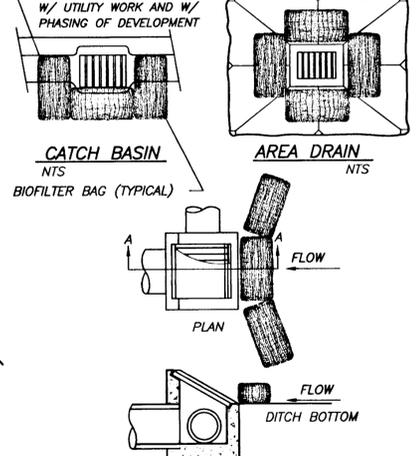
**BIOFILTER BAG OVERLAND FLOW**



**BIOFILTER BAG OVERLAND FLOW**



**BIOFILTER BAG DITCHES AND SWALES**



**TEMPORARY BIOFILTER BAGS AT INLETS**

**EROSION CONTROL MATRIX**

EROSION MEASURES	1 2 3 4 5 6 7 8 9 10 11 12 13 14													
	GRAVEL CONSTRUCTION ENTRANCE	SEDIMENT FENCE/BARRIER AT TOE OF DISTURBED AREA OR STOCKPILE	SIDEWALK SUBGRADE GRAVEL BARRIER (SITE SLOPES TO STREET AT <3% GRADE) ALTERNATE TO #2	UNDISTURBED BUFFER AT TOE OF DISTURBED AREAS (ALTERNATE TO #2) (SITE SLOPES <10%)	SEDIMENT FENCE OR BARRIER INSTALLED ON CONTOURS (SPACING)	TEMP. INTERCEPTOR DITCHES/SWALES AROUND ACTIVE WORK AREAS	CHECK DAMS	STORM DRAIN INLET PROTECTION BARRIER	6-MIL PLASTIC SHEET COVER	2\"/> <th>ESTABLISH GRASS</th> <th>EROSION BLANKETS WITH ANCHORS</th> <th>SEDIMENT TRAP OR POND</th> <th>RE-ESTABLISH VEGETATION OR LANDSCAPE PRIOR TO REMOVAL OF EROSION CONTROL MEASURES</th>	ESTABLISH GRASS	EROSION BLANKETS WITH ANCHORS	SEDIMENT TRAP OR POND	RE-ESTABLISH VEGETATION OR LANDSCAPE PRIOR TO REMOVAL OF EROSION CONTROL MEASURES
<b>SINGLE FAMILY/ DUPLEX RESIDENTIAL</b>														
SLOPE <2%	X	X	A(2)	A(2)										X
SLOPE >2%	X	X		X										X
STOCK PILES														
<b>COMMERCIAL SUBDIVISION LARGE SITE CONSTRUCTION</b>														
SITE SLOPE <2%	X	X												X
SITE SLOPE <10%	X	X												X
SITE SLOPE <15%	X	X												X
SITE SLOPE <20%	X	X												X
SITE SLOPE <30%	X	X												X
SITE SLOPE <50%	X	X												X
STOCK PILE SLOPE >50%	X	X												X
<b>UTILITIES CONSTRUCTION</b>														
CATCH BASIN DRAINAGE														X
DITCH DRAINAGE														X
<b>STOCK PILES</b>														
STOCK PILES														
<b>DITCHES/SWALES (CONSTRUCTION/PROTECTION)</b>														
DITCHES/SWALES	X													X

KEY: X = BASE MEASURE A = ALTERNATE TO BASE MEASURE INDICATED IN PARENTHESIS # = OPTIONAL BASE MEASURE CAN USE AS APPLICABLE  
 \* = SUPPLEMENTAL WET WEATHER MEASURE (NOVEMBER 1-APRIL 30) O = ALTERNATE WET WEATHER MEASURE TO \*

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Signature \_\_\_\_\_  
 Date \_\_\_\_\_

**"AS-BUILT"**  
 DATE \_\_\_\_\_ BY \_\_\_\_\_

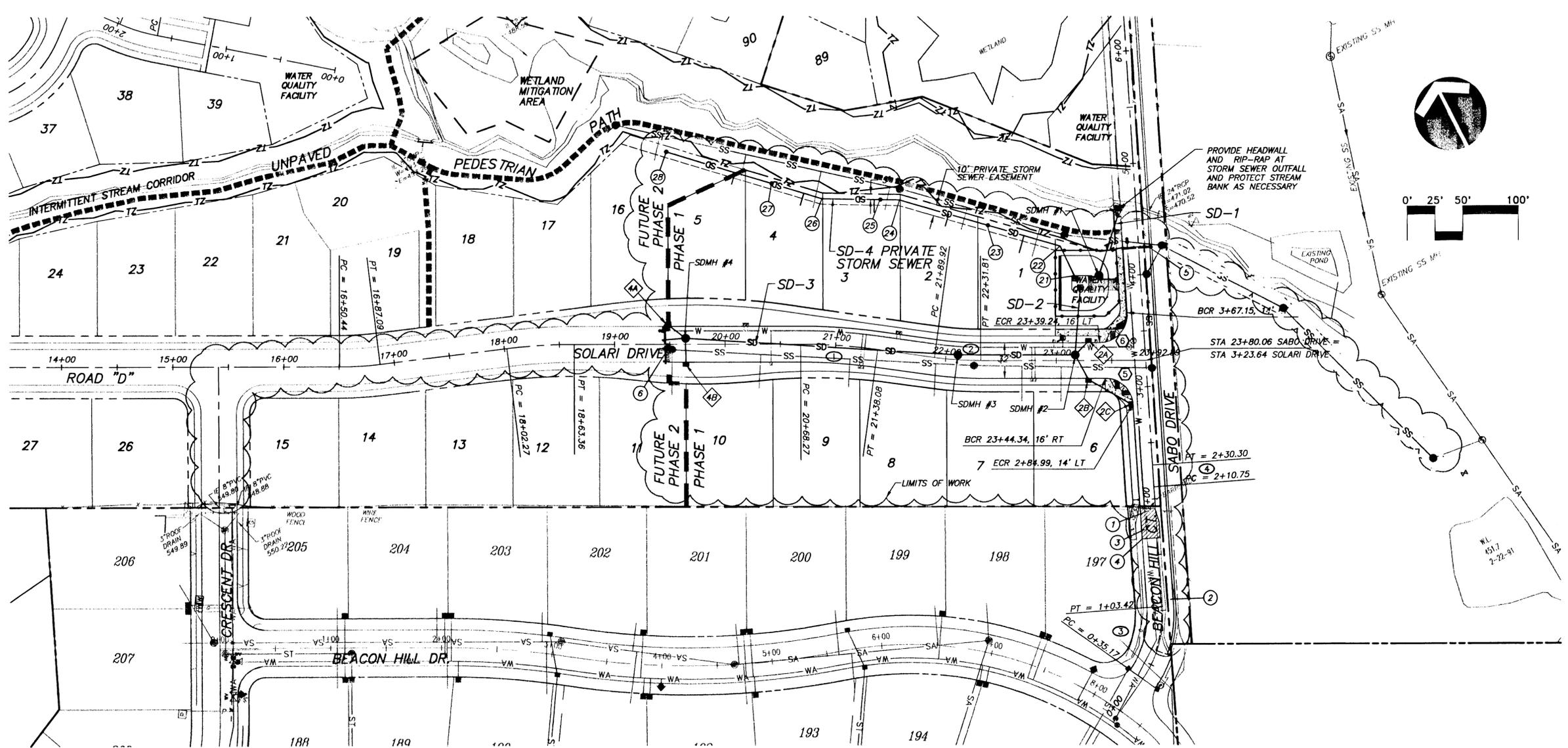
11/05/99  
 Date  
 G.S.  
 Designed  
 G.S.  
 Drawn  
 Checked By Date  
  
 M. FARES KEKWA  
 EXPIRES JUNE 30, 2001

**TANNER BASIN L.L.C.**  
 40968 WARD ROAD  
 MONMOUTH, OR 97361  
 Phone: (503) 655-6044  
 Fax: (503) 557-9281

**ROGERFIELD SUBDIVISION**  
 PHASE 1  
 CITY OF WEST LINN, OREGON  
 GRADING AND EROSION CONTROL  
 NOTES AND DETAILS

Incorporated  
 17355 SW Boones Ferry Rd.  
 Lake Oswego, Oregon 97035  
 Phone: (503) 635-3618  
 FAX: (503) 635-5395  
 Project No. L9819  
 DB19s005  
 File No. 5 of 13  
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11/05/99  
 Date G.S.  
 Designed G.S.  
 Drawn  
 Checked By Date  
 REGISTERED PROFESSIONAL ENGINEER  
 TANNER BASIN L.L.C.  
 EXPIRES JUNE 30, 2001

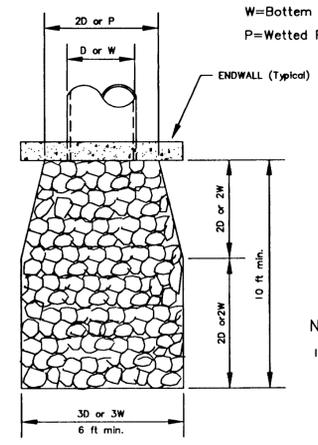
TANNER BASIN L.L.C.  
 40968 WARD ROAD  
 MONMOUTH, OR 97361  
 Phone: (503) 655-6044  
 Fax: (503) 557-9281

ROGERFIELD SUBDIVISION  
 PHASE 1  
 CITY OF WEST LINN, OREGON  
 STREET AND STORM DRAIN PLAN

otak  
 Incorporated  
 17355 SW Boones Ferry Rd.  
 Lake Oswego, Oregon 97035  
 Phone: (503) 635-3618  
 FAX: (503) 635-5395

L9819  
 Project No. DB19S006  
 File No.  
 6 of 13  
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D=Pipe Diameter  
 W=Bottom Width of Channel  
 P=Wetted Perimeter of Channel



Design Velocity ft./sec.	Rock Classification by Weight
6 - 10	200 lbs.
10 - 12	1/4 Ton
12 - 14	1/2 Ton
14 - 16	1 Ton
16 - 18	2 Ton

- NOTES:
- Dimensions for riprap apply to flows < 2 CFS; Rip Rap for flows > 2 CFS must be designed by an Engineer. Flows > 20 fps shall use Energy Dissipator.
  - Type of Rip Rap
    - Regular Quarry Stone
    - Rounded Cobblestone
    - Broken Concrete (only allowed upon approval of the District).
  - Placement
    - Minimum depth = 1 1/2 times average stone size.
    - Rocks shall be placed to provide a minimum of voids.
    - Surface rocks or concrete shall protrude at least 1/2 their vertical dimension.
    - Rip Rap is to be placed over a natural bedding, or it may be grouted or placed over a gravel bedding as required by the District.

STORM SEWER HEADWALL DETAIL

CENTERLINE CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	500.00	69.81	34.96	8'00"00"
2	300.00	41.89	20.98	8'00"00"
3	100.00	68.25	35.51	39'06"09"
4	2500.00	19.55	9.78	00'26"53"

CURB RETURN CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
5	25.00	37.72	23.49	86'26"32"
6	25.00	40.82	26.60	93'33"28"

TOP OF CURB ELEVATION

CURVE	B.C.R.	1/4	1/2	3/4	E.C.R.
5	483.65	484.01	484.89	485.86	486.51
6	482.22	482.75	483.26	483.5	483.60

CATCH BASIN DATA

CATCH BASIN NUMBER	STREET STATION	TOP OF CURB ELEV.	PIPE IN IE IN	PIPE OUT IE OUT	SIZE LENGTH	SLOPE
C.B. #2A	23+29.17	483.69	478.04	17.21	10" LF	0.0552
C.B. #2B	23+29.17	483.77	479.47	25.34	12" LF	0.0821
C.B. #2C	2+84.99	486.53	482.23	44.80	10" LF	0.0616
C.B. #4A	19+48.59	498.51	492.51	19.69	10" LF	0.2047
C.B. #4B	19+64.51	497.27	492.17	22.58	10" LF	0.1634

STORM SEWER LATERAL TABLE  
 Storm Sewer SD-4

Lot No.	Sewer Station	Length (l.f.)	Invert main	Slope	Depth end of lateral (ft)
1	0+63.30	16	475.30	0.0600	6.0
2	1+34.05	11	476.78	0.1088	6.1
3	2+03.04	11	478.66	0.0900	6.0
4	2+67.29	11	480.94	0.0360	7.0
5	3+32.29	11	482.98	0.0700	6.0

STREET CONSTRUCTION NOTES

- STA 1+90 SABO DRIVE REMOVE EXISTING BARRICADE
- STA 0+63.42 TO STA 1+65.00 SABO DRIVE CONSTRUCT HALF STREET IMPROVEMENTS PER DETAIL ON SHEET 2
- STA 1+65.00 TO STA 1+92.40 SABO DRIVE REMOVE EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER
- STA 1+65.00 14' LT SABO DRIVE BEGIN NEW SIDEWALK, CURB AND GUTTER MATCH EXISTING
- STA 4+25.00 SABO DRIVE END STREET CONSTRUCTION CONSTRUCT TYPE III BARRICADE
- STA 19+48.59 SOLARI DRIVE END STREET CONSTRUCTION CONSTRUCT TYPE III BARRICADE

PRIVATE STORM SEWER CONSTRUCTION NOTES

- SD-4 STA 0+00.00 OUTFALL TO WATER QUALITY FACILITY WITH 5 C.Y. CLASS 50 RIP RAP IE = 474.12 29.41 LF 10" STM PIPE, S = 0.0161
- SD-4 STA 0+29.41 45' BEND IE = 474.59 67.72 LF 10" STM PIPE, S = 0.0209
- SD-4 STA 0+97.13 CLEANOUT RIM = 482.46, IE = 476.01 83.08 LF 10" STM PIPE, S = 0.0209
- SD-4 STA 1+80.21 11 1/4" BEND, 10" x 8" REDUCER IE (10") = 477.74 17.16 LF 8" STM PIPE, S = 0.0367
- SD-4 STA 1+97.37 CLEANOUT RIM = 484.86, IE = 478.46 52.88 LF 8" STM PIPE, S = 0.0367
- SD-4 STA 2+50.25 11 1/4" BEND IE = 480.40 47.50 LF 8" STM PIPE, S = 0.0314
- SD-4 STA 2+97.75 CLEANOUT RIM = 488.70, IE = 481.90 99.30 LF 8" STM PIPE, S = 0.0314
- SD-4 STA 3+97.05 CLEANOUT RIM = 490.37, IE = 485.02

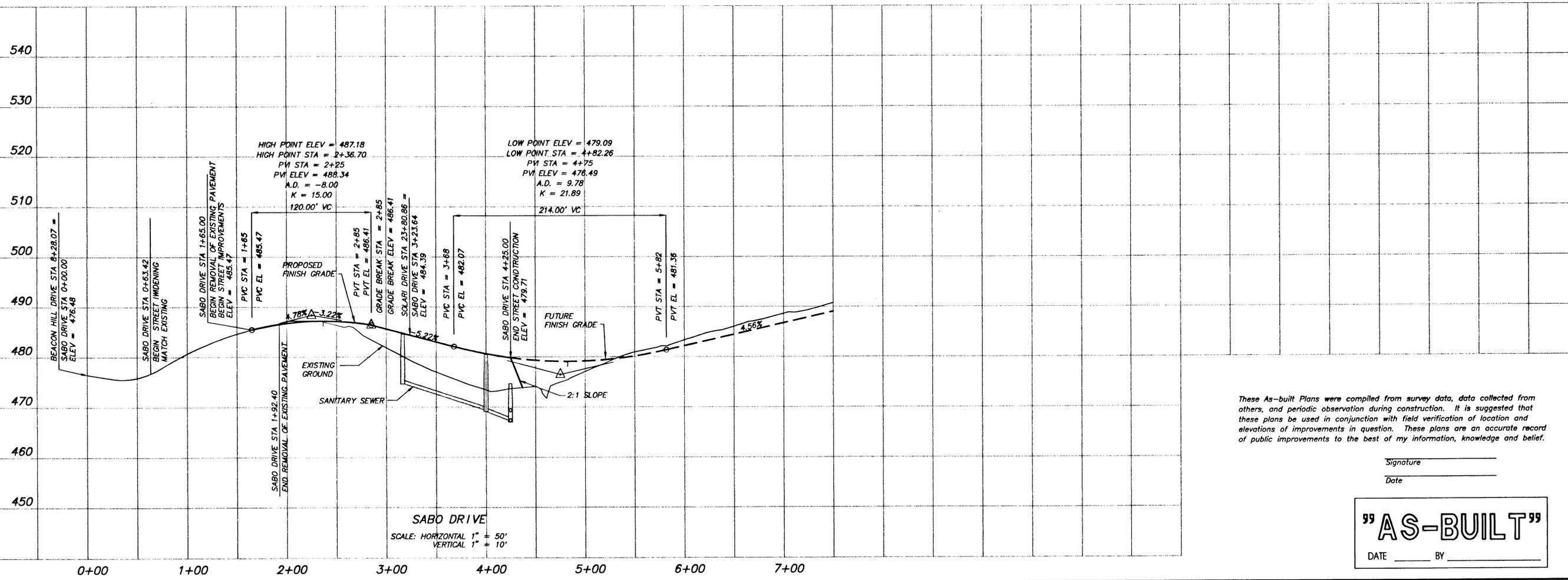
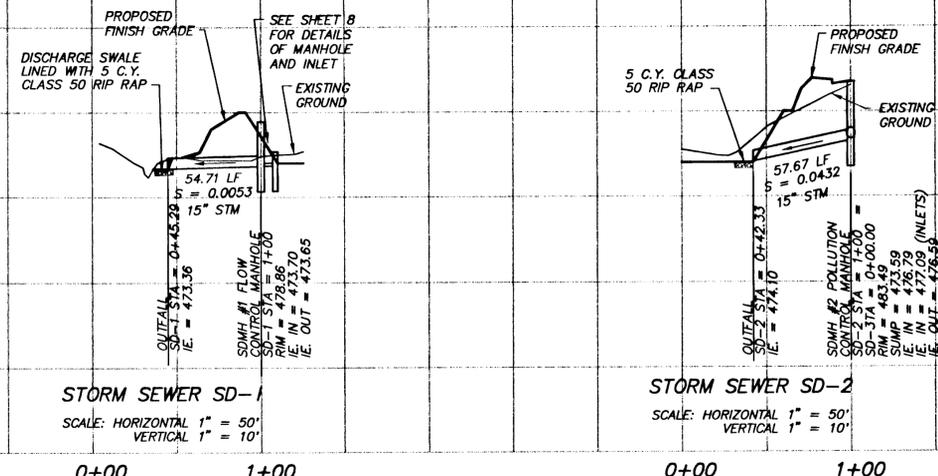
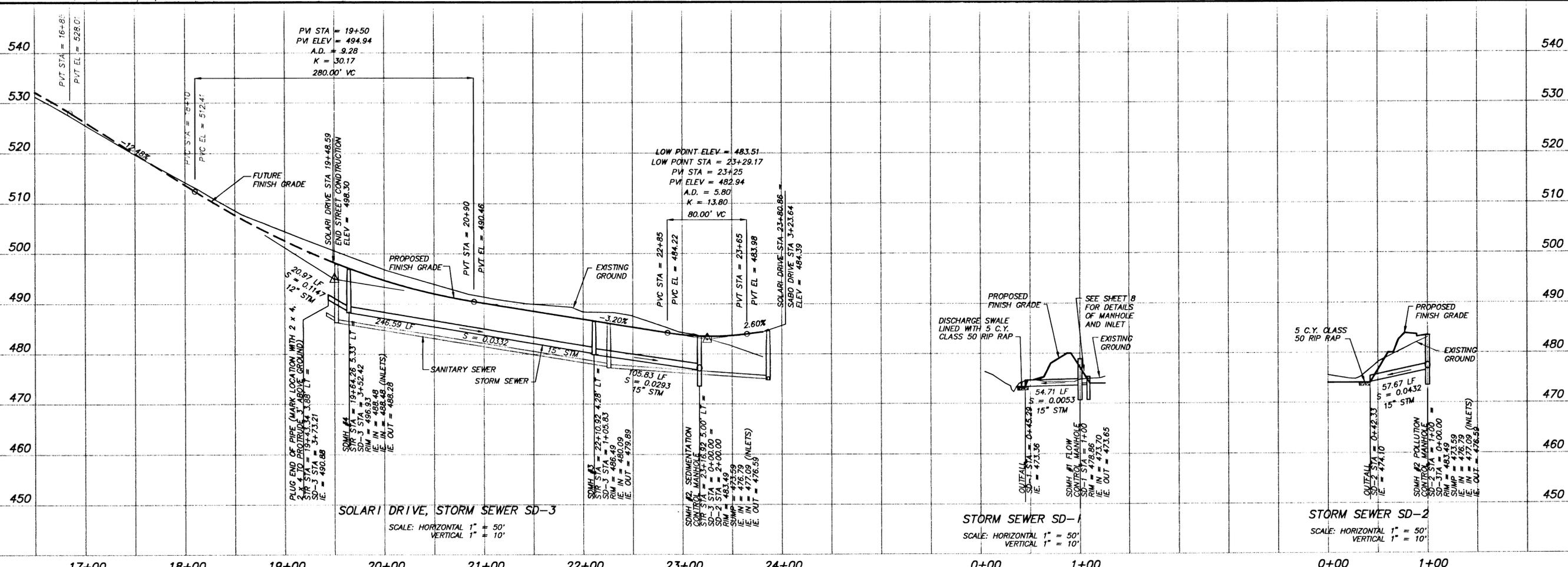
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Signature \_\_\_\_\_  
 Date \_\_\_\_\_

LEGEND

- EXISTING
- WA WATER LINE
  - SA SANITARY SEWER LINE
  - ST STORM SEWER LINE
  - SM SANITARY SEWER MANHOLE
  - SI STORM DRAIN INLET
  - GV GATE VALVE
  - FH FIRE HYDRANT
- PROPOSED
- PL PROPERTY LINE
  - ROW RIGHT-OF-WAY LINE
  - EL EASEMENT LINE
  - TZ TZ TRANSITION ZONE BOUNDARY
  - PH PHASE LINE
  - WA WATER LINE
  - SS SANITARY SEWER LINE
  - SD STORM SEWER LINE
  - SM STORM DRAIN MANHOLE
  - SM SANITARY SEWER MANHOLE
  - SI STORM DRAIN INLET
  - GV GATE VALVE
  - FH FIRE HYDRANT
  - BO BLOW-OFF ASSEMBLY
  - WS WATER SERVICE



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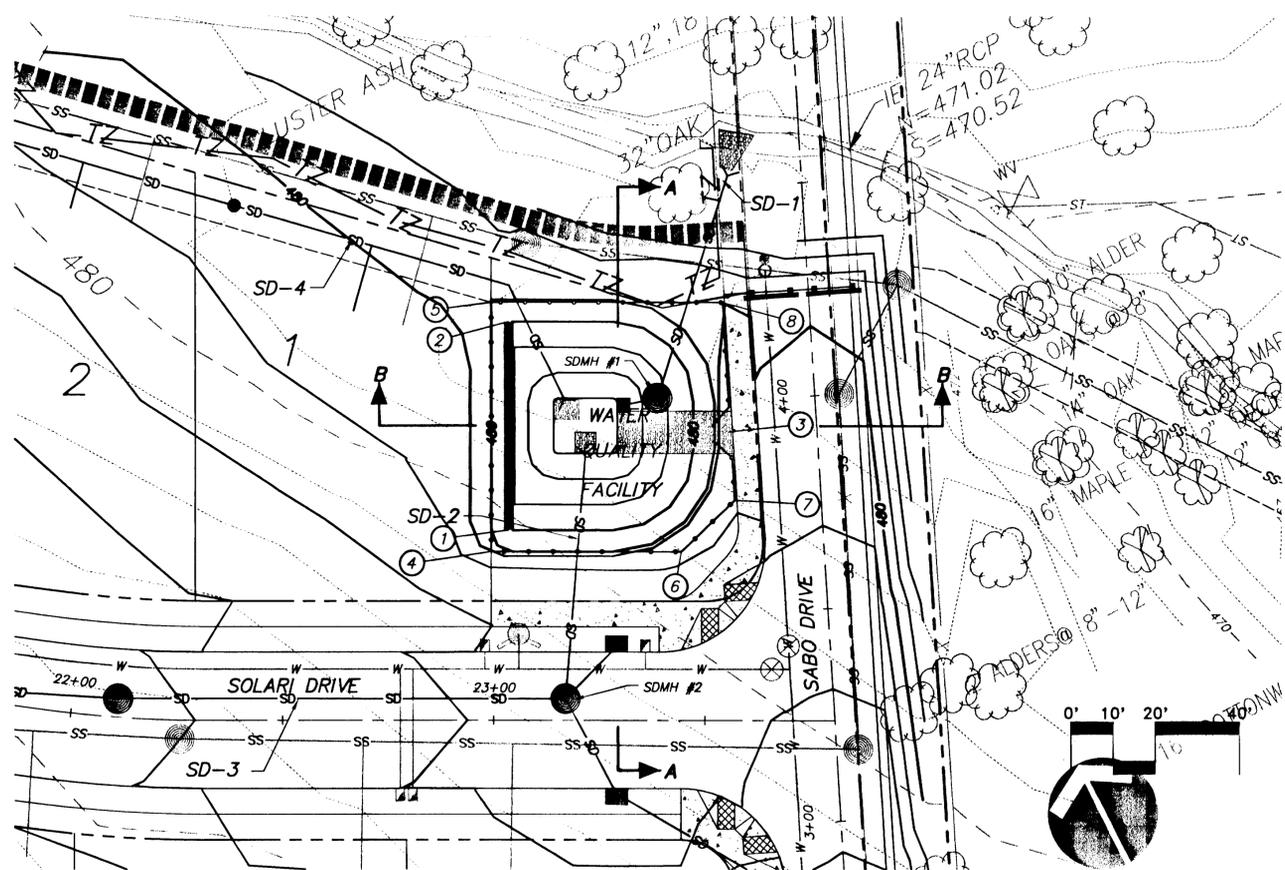
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 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF OREGON  
 SEPTEMBER 28, 1984  
 M. FARES KEKWA  
 EXPIRES JUNE 30, 2001

**TANNER BASIN L.L.C.**  
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**ROGERFIELD SUBDIVISION**  
 PHASE 1  
 CITY OF WEST LINN, OREGON  
 STREET AND STORM DRAIN PROFILES

**otak**  
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 17355 SW Boones Ferry Rd.  
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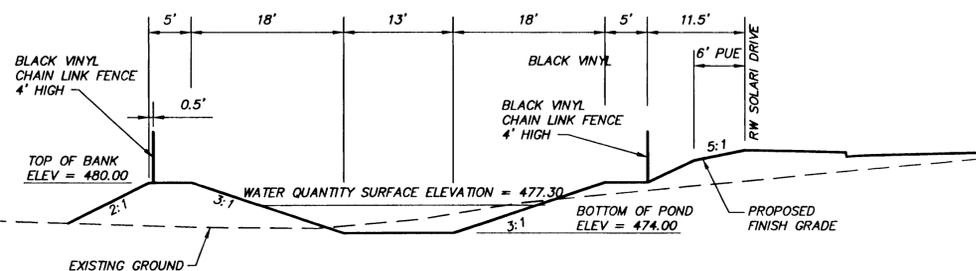
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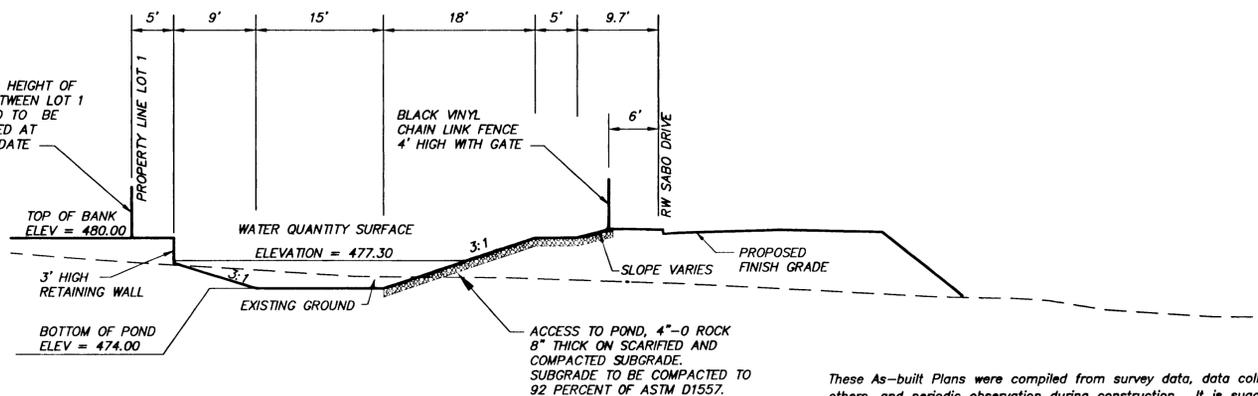
**WATER QUALITY FACILITY PLAN**

**CONSTRUCTION NOTES**

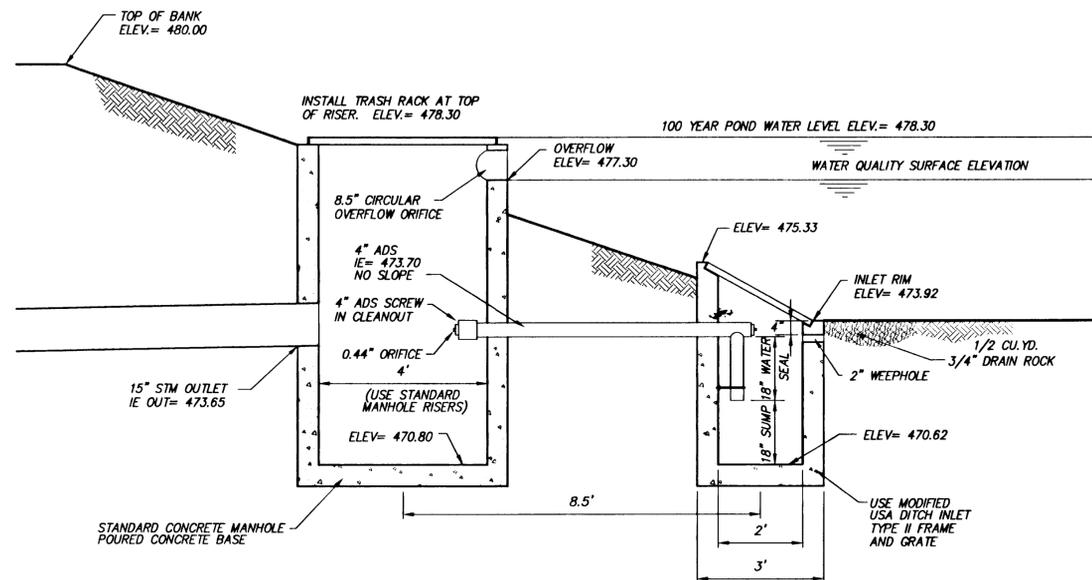
- ① STA 23+04.46, 44.50' LT SOLARI DRIVE BEGIN 3' HIGH RETAINING WALL TOP OF WALL = 480.00, BOTTOM OF WALL = 477.00
- ② STA 23+04.46, 93.50' LT SOLARI DRIVE END 3' HIGH RETAINING WALL TOP OF WALL = 480.00, BOTTOM OF WALL = 477.00
- ③ STA 3+92.50 SABO DRIVE CENTER 10' WIDE ACCESS ROAD AND 12' WIDE BLACK VINYL CHAINLINK GATE
- ④ STA 22+99.46, 39.50' LT SOLARI DRIVE CORNER BLACK VINYL CHAINLINK FENCE
- ⑤ STA 22+99.46, 98.00' LT SOLARI DRIVE CORNER BLACK VINYL CHAINLINK FENCE
- ⑥ STA 23+44.46, 39.50' LT SOLARI DRIVE CORNER BLACK VINYL CHAINLINK FENCE
- ⑦ STA 3+76.58, 20.50' LT SABO DRIVE CORNER BLACK VINYL CHAINLINK FENCE
- ⑧ STA 24+23.11, 20.50' LT SABO DRIVE CORNER BLACK VINYL CHAINLINK FENCE



**SECTION A-A**



**SECTION B-B**



**SDMH #1 FLOW CONTROL MANHOLE: POND OUTLET**

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Signature \_\_\_\_\_  
Date \_\_\_\_\_

**AS-BUILT**  
DATE \_\_\_\_\_ BY \_\_\_\_\_

11/05/99

Date G.S.  
Designed G.S.  
Drawn  
Checked By Date



**TANNER BASIN L.L.C.**

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**ROGERFIELD SUBDIVISION**

PHASE 1  
CITY OF WEST LINN, OREGON

WATER QUALITY FACILITY



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Lake Oswego, Oregon 97035  
Phone: (503) 635-3618  
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L9819

Project No.

DB19S008

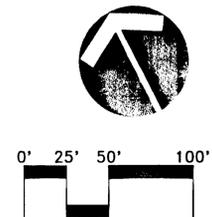
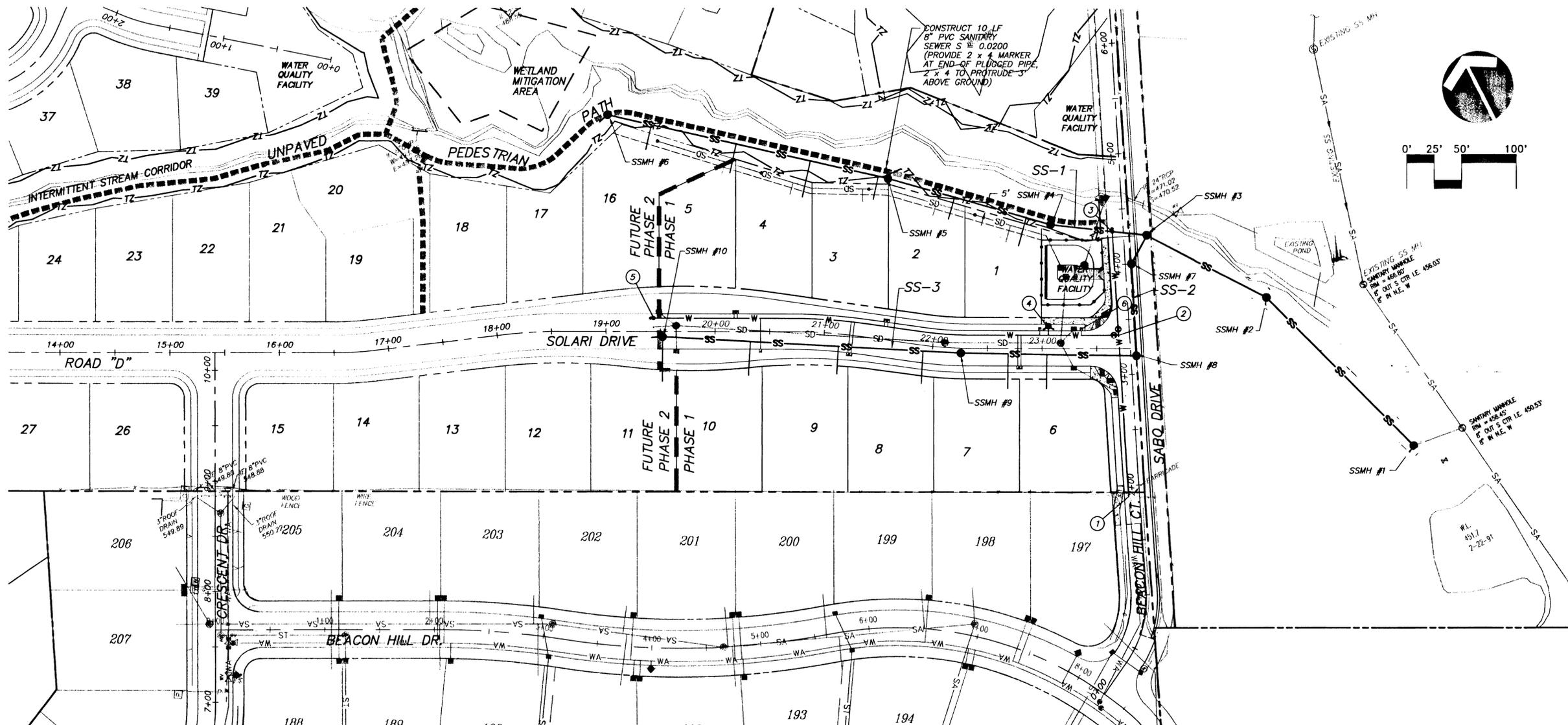
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**SANITARY SEWER LATERAL TABLE**  
Sanitary Sewer SS-1

Lot No.	Sewer Station	Length (l.f.)	Invert main	Slope	Depth end of lateral (ft)
1	4+25.50	26	470.85	0.1040	7.2
2	4+93.69	20	471.64	0.1830	8.0
3	5+65.88	21	472.91	0.1940	7.7
4	6+29.73	33	475.29	0.1520	7.2
5	6+99.28	27	477.88	0.1300	8.0
16	7+78.99	23	480.85	0.0640	7.1

**SANITARY SEWER LATERAL TABLE**  
Sanitary Sewer SS-3

Lot No.	Sewer Station	Length (l.f.)	Invert main	Slope	Depth end of lateral (ft)
6	0+81.90	31	476.14	0.1380	5.0
7	1+17.31	31	476.64	0.0340	8.0
8	1+95.28	29	478.58	0.1860	5.0
9	2+73.00	25	481.09	0.1400	6.0
10	3+53.63	31	483.69	0.1650	5.3
11	4+34.02	40	486.50	0.1698	6.7

**WATERLINE CONSTRUCTION NOTES**

- STA 1+90.35 10' LT SOLARI DRIVE REMOVE EXISTING BLOWOFF ASSEMBLY CONNECT TO EXISTING 8" WATER LINE
- STA 3+36.29 10' LT SOLARI DRIVE INSTALL 8"x 8" TEE WITH THRUST BLOCK 2- 8" GATE VALVES
- STA 4+30.00 10' LT SOLARI DRIVE INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL
- STA 23+05.93 18.5' LT SABO DRIVE INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL
- STA 19+43.59 12' LT SABO DRIVE INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL
- STA 23+35.96 18' LT SOLARI DRIVE INSTALL 1" IRRIGATION METER

NOTE: ALL WATER LINE IS 8" DIP CLASS 52 UNLESS OTHER WISE NOTED

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Date \_\_\_\_\_

**"AS-BUILT"**  
DATE \_\_\_\_\_ BY \_\_\_\_\_

**LEGEND**

- EXISTING**
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  - ST STORM SEWER LINE
  - SM SANITARY SEWER MANHOLE
  - LI STORM DRAIN INLET
  - GV GATE VALVE
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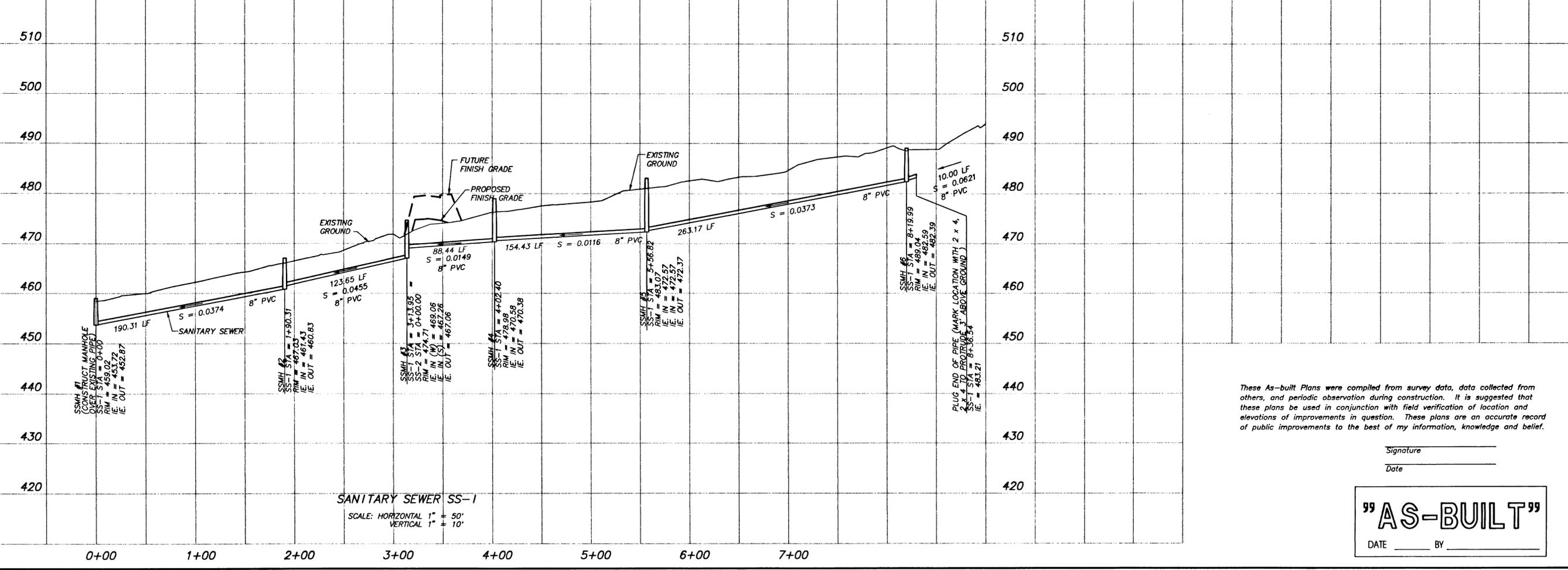
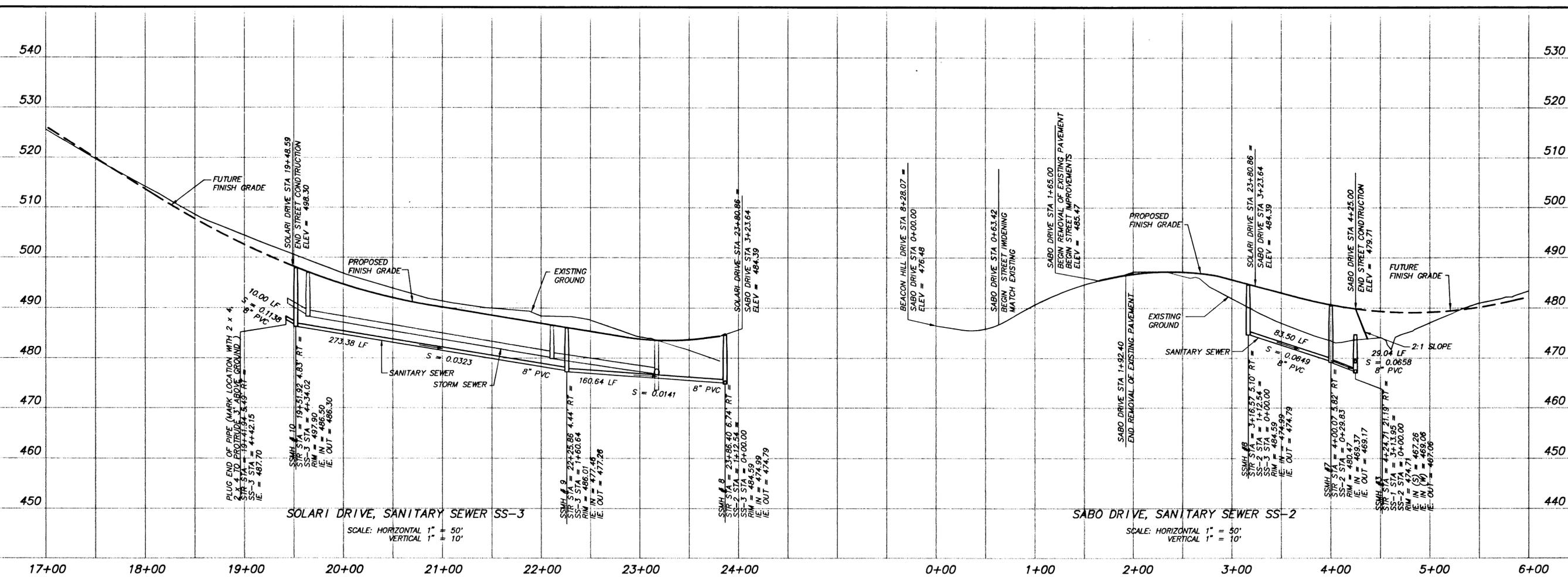
**TANNER BASIN L.L.C.**  
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**ROGERFIELD SUBDIVISION**  
PHASE 1  
CITY OF WEST LINN, OREGON  
SANITARY SEWER AND WATER PLAN

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FAX: (503) 635-5395

L9819  
Project No. D819s009  
File No. 9 of 13  
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11/05/99  
 Date  
 G.S.  
 Designed  
 G.S.  
 Drawn  
 Checked By Date  
 REGISTERED PROFESSIONAL ENGINEER  
 FARES KEKWA  
 SEPTEMBER 28, 1994  
 EXPIRES JUNE 30, 2001

**TANNER BASIN L.L.C.**  
 40968 WARD ROAD  
 MONMOUTH, OREGON 97136  
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**ROGERFIELD SUBDIVISION**  
 PHASE 1  
 CITY OF WEST LINN, OREGON  
 SANITARY SEWER PROFILES

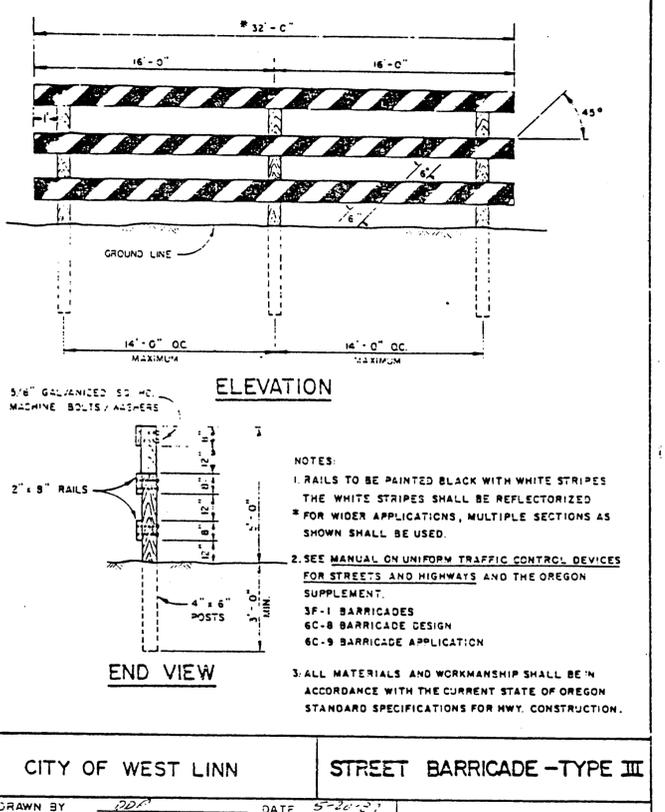
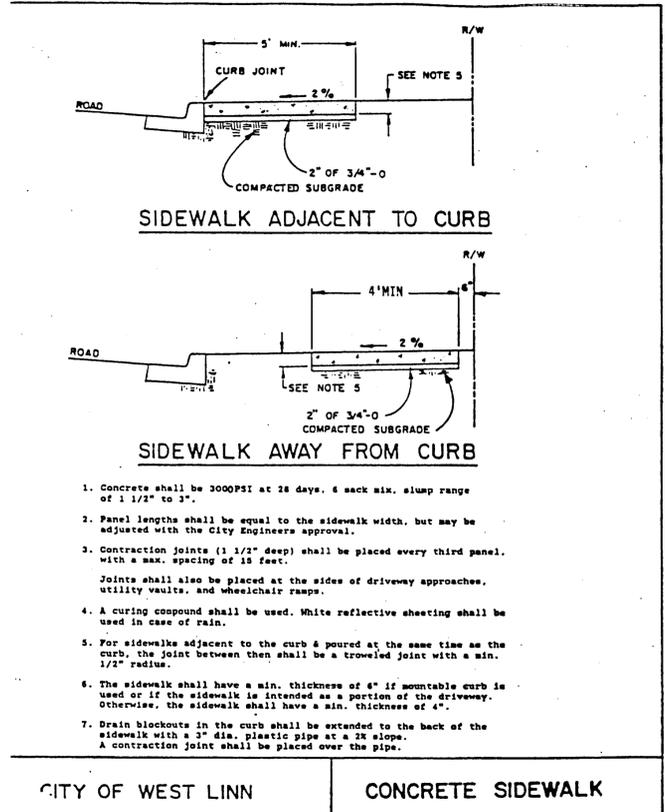
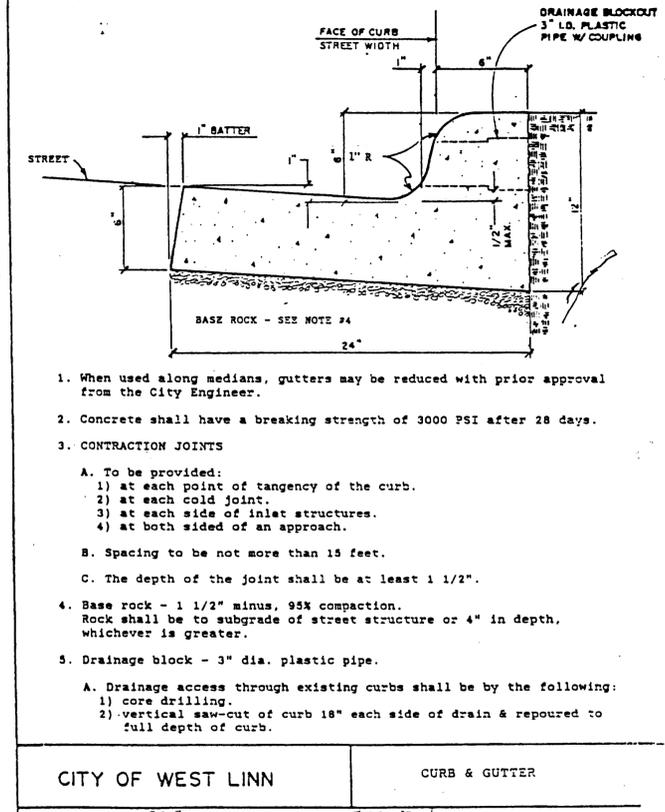
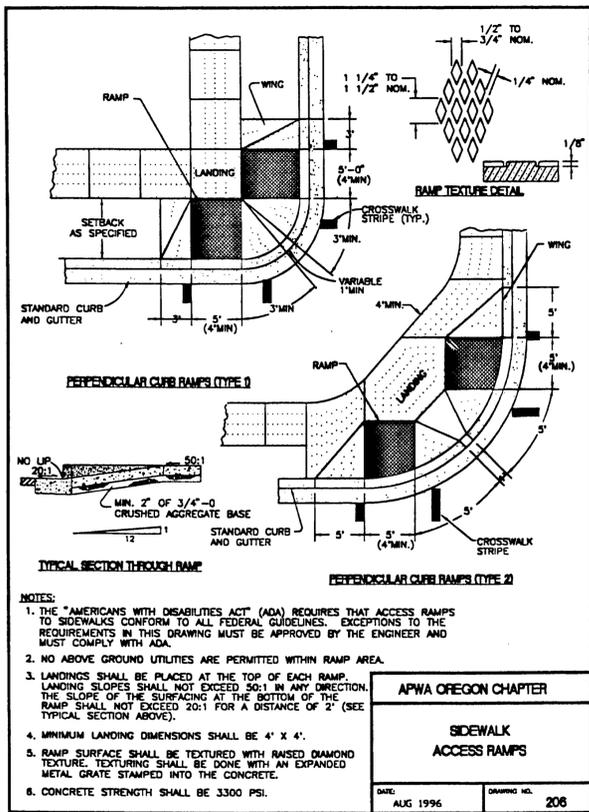
**otak**  
 Incorporated  
 17355 SW Boones Ferry Rd.  
 Lake Oswego, Oregon 97035  
 Phone: (503) 635-3618  
 FAX: (503) 635-5396

These As-built Plans were compiled from survey data, data collected from others, and periodic observation during construction. It is suggested that these plans be used in conjunction with field verification of location and elevations of improvements in question. These plans are an accurate record of public improvements to the best of my information, knowledge and belief.

Signature \_\_\_\_\_  
 Date \_\_\_\_\_

**"AS-BUILT"**  
 DATE \_\_\_\_\_ BY \_\_\_\_\_

L9819  
 Project No.  
 D819s010  
 File No.  
**10 of 13**  
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CITY OF WEST LINN CURB & GUTTER

DRAWN BY DDP DATE 5-20-87

CHECKED BY D.L. DATE 5-27-87

APPROVED BY Earl Reed DATE 5-27-87

DWG. NO. CG - 265

CITY OF WEST LINN CONCRETE SIDEWALK

DRAWN BY DDP DATE 5-20-87

CHECKED BY D.L. DATE 5-27-87

APPROVED BY Earl Reed DATE 5-27-87

DWG. NO. CS - 270

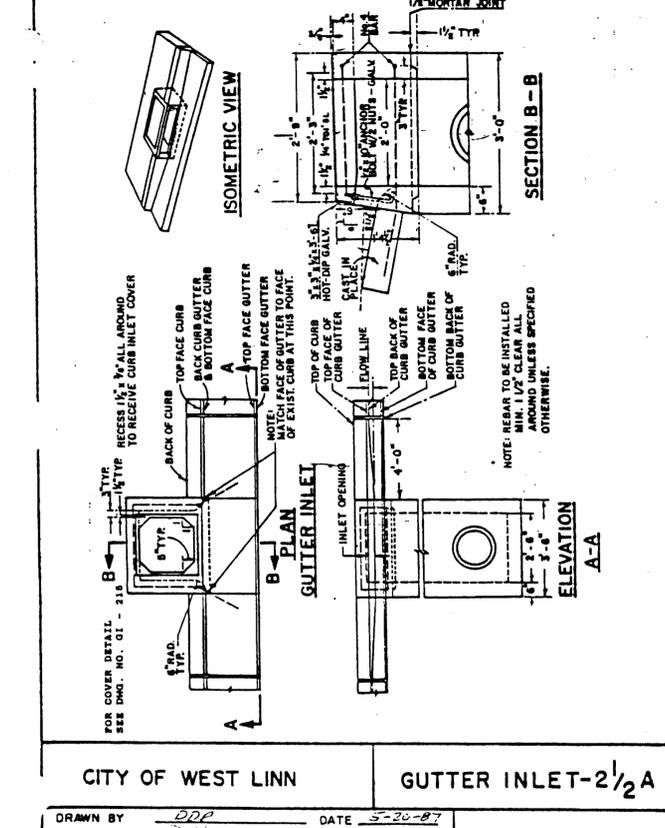
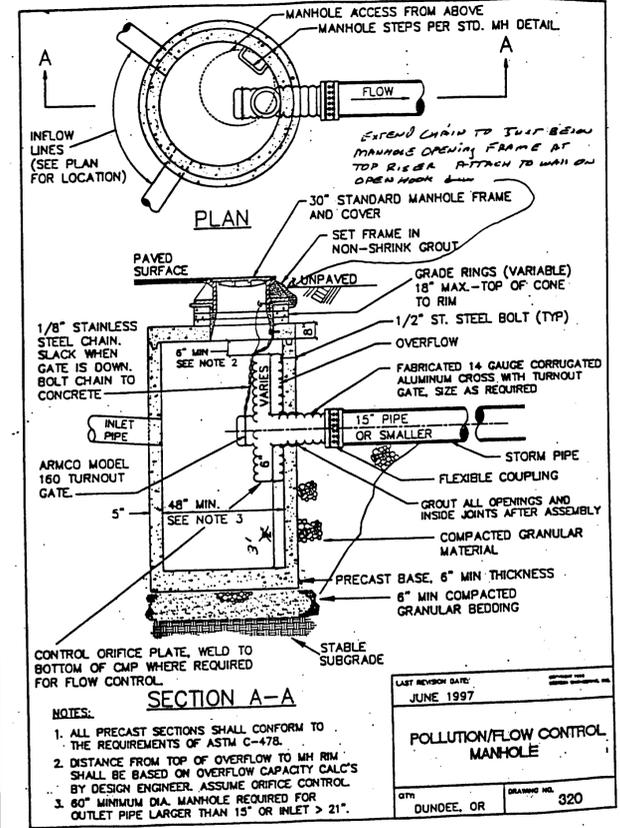
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DRAWN BY DDP DATE 5-20-87

CHECKED BY D.L. DATE 5-27-87

APPROVED BY Earl Reed DATE 5-27-87

DWG. NO. SB - 276



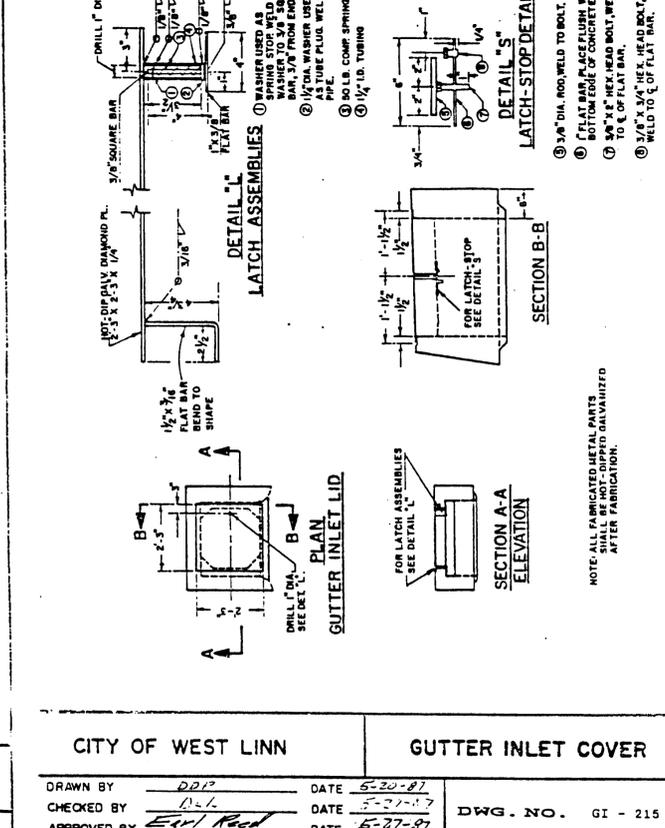
CITY OF WEST LINN GUTTER INLET-2 1/2 A

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CHECKED BY D.L. DATE 5-27-87

APPROVED BY Earl Reed DATE 5-27-87

DWG. NO. GI - 214



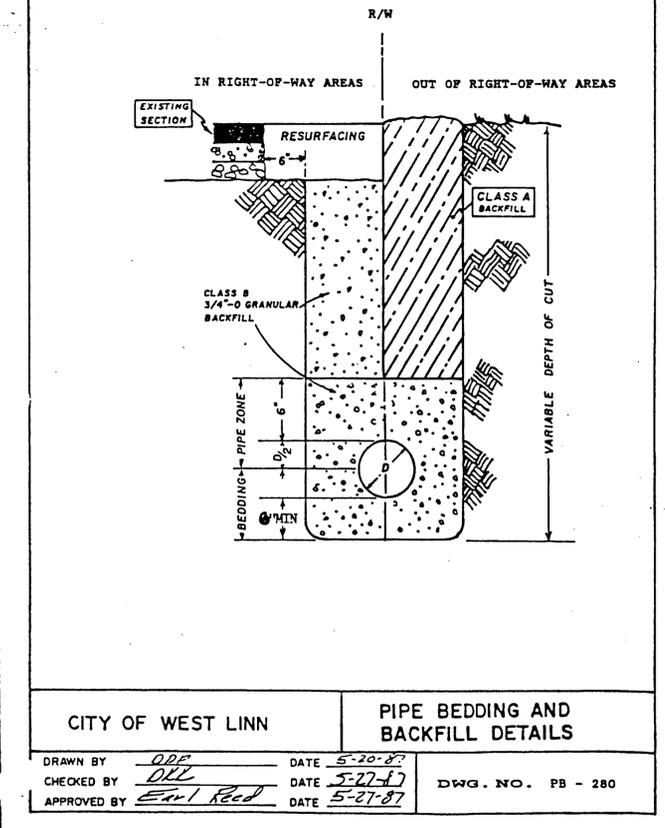
CITY OF WEST LINN GUTTER INLET COVER

DRAWN BY DDP DATE 5-20-87

CHECKED BY D.L. DATE 5-27-87

APPROVED BY Earl Reed DATE 5-27-87

DWG. NO. GI - 215



CITY OF WEST LINN PIPE BEDDING AND BACKFILL DETAILS

DRAWN BY DDP DATE 5-20-87

CHECKED BY D.L. DATE 5-27-87

APPROVED BY Earl Reed DATE 5-27-87

DWG. NO. PB - 280

8/20/99

Date

Designed G.S.

Drawn MFK 8/24/99

Checked By Date

REGISTERED PROFESSIONAL ENGINEER 17447

OREGON

SEPTEMBER 28, 1994

M. FARES KEKHA

EXPIRES JUNE 30, 2001

TANNER BASIN L.L.C.

40968 WARD ROAD

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ROGERFIELD SUBDIVISION

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Project No.

DB19S011

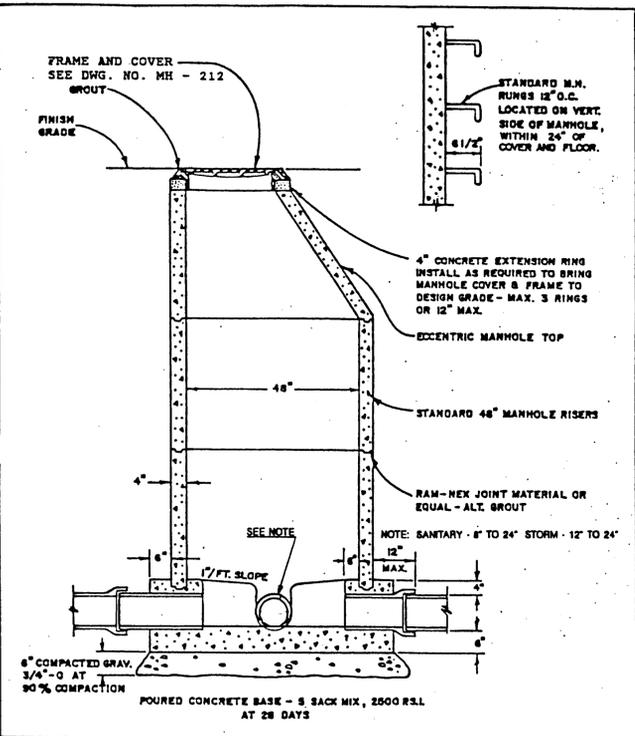
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11 OF 13

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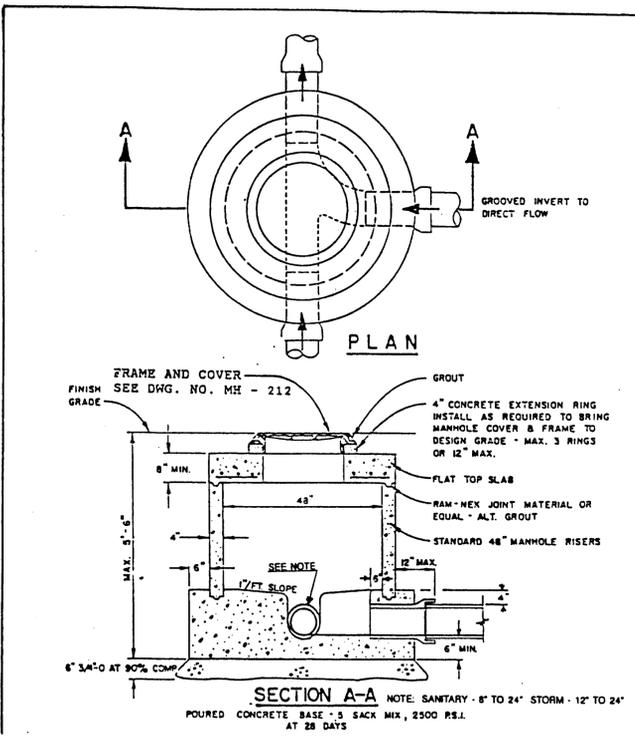


CITY OF WEST LINN STANDARD MANHOLE

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APPROVED BY Earl Red DATE 5-27-87

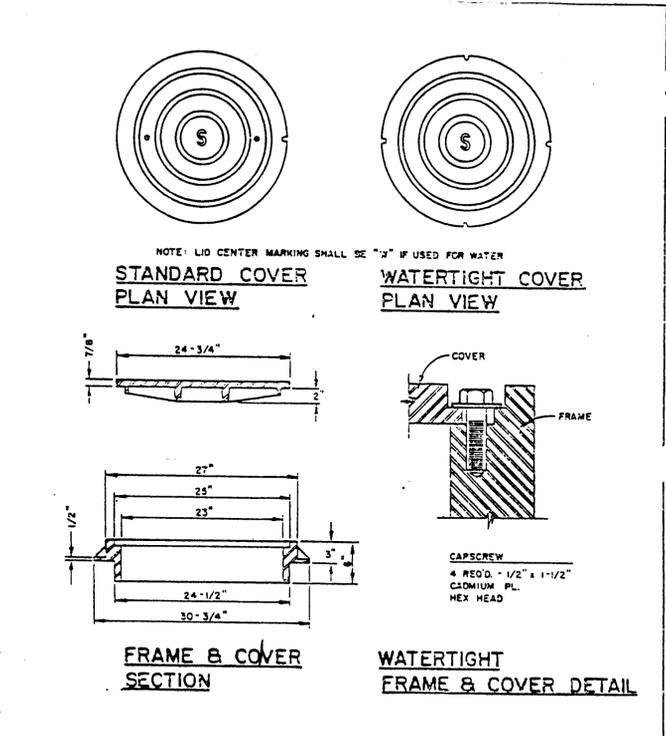


CITY OF WEST LINN SHALLOW MANHOLE

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CHECKED BY DLK DATE 5-27-87 DWG. NO. MH - 210

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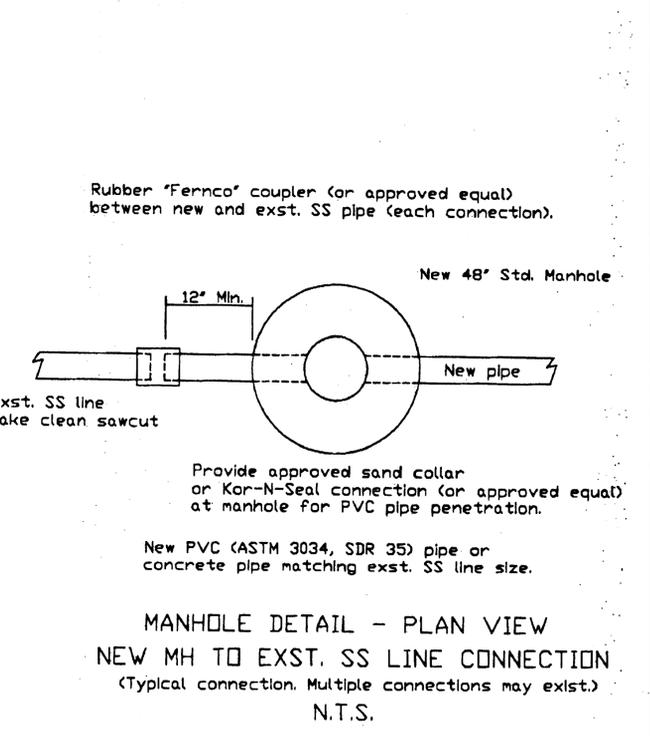


CITY OF WEST LINN MANHOLE FRAME & COVER

DRAWN BY DDP DATE 5-20-87

CHECKED BY DLK DATE 5-27-87 DWG. NO. MH - 212

APPROVED BY Earl Red DATE 5-27-87



8/20/99

Date

G.S.

Designed

G.S.

Drawn

MEK 8/20/99

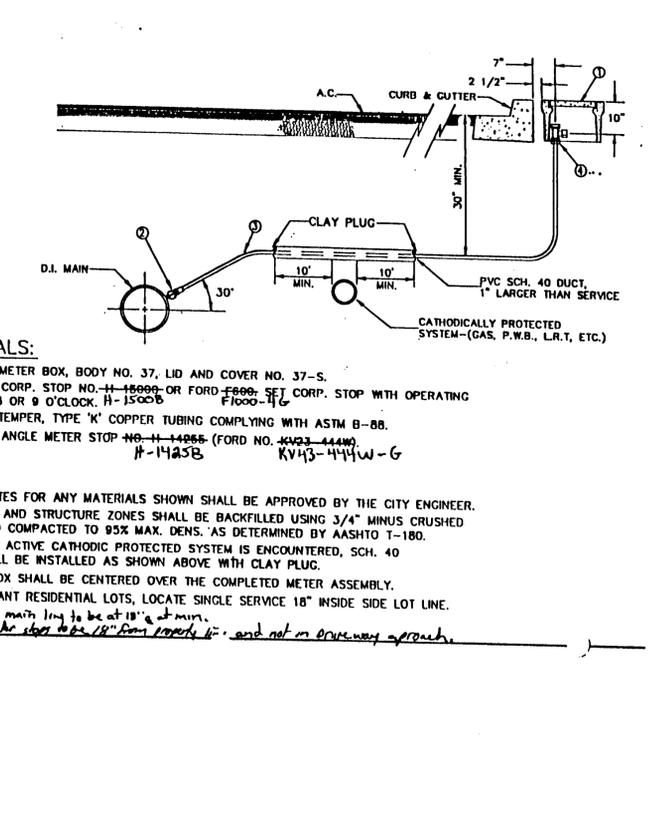
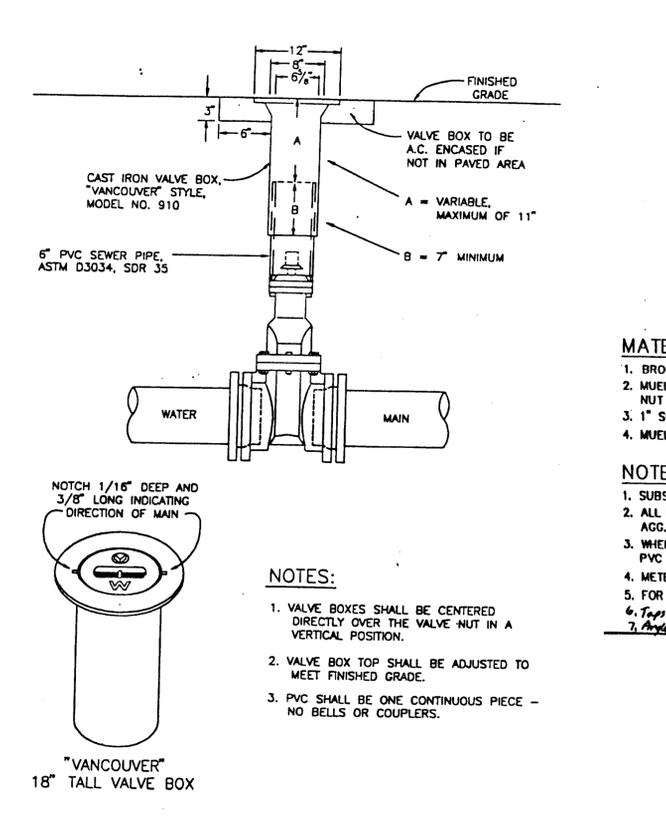
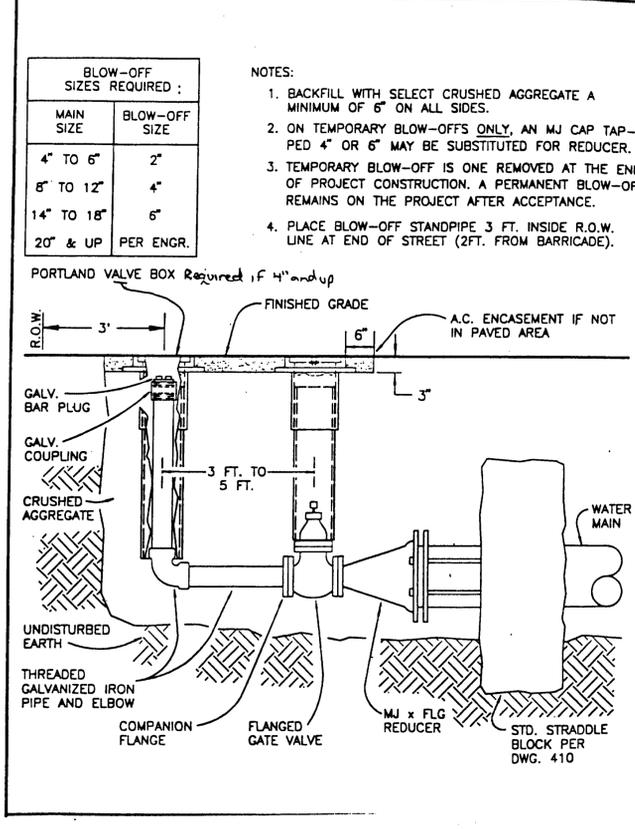
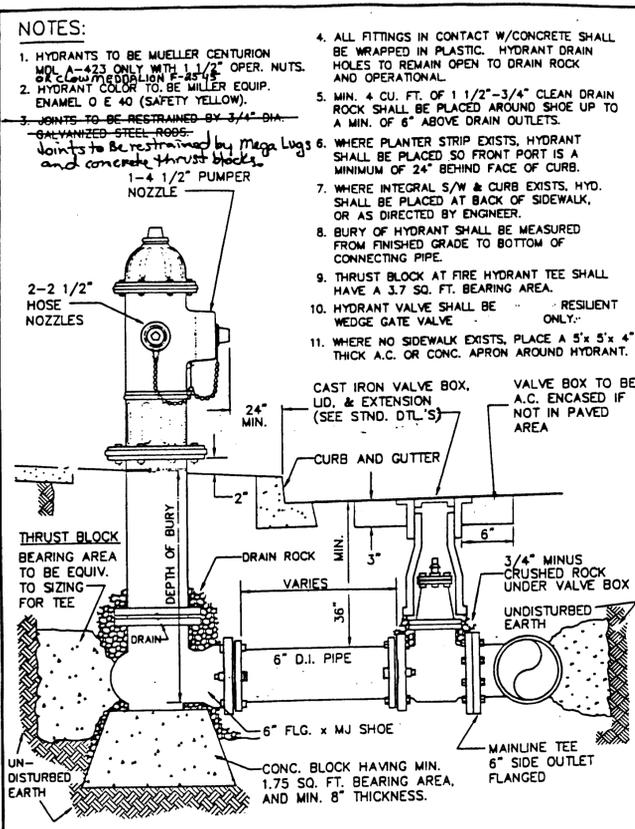
Checked By Date

REGISTERED PROFESSIONAL ENGINEER 17447 SEPTEMBER 28, 1994 M. FARES KEVITA EXPIRES JUNE 30, 2001

TANNER BASIN L.L.C.

40968 WARD ROAD MONMOUTH, OR 97361

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ROGERFIELD SUBDIVISION

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Project No.

D819S012

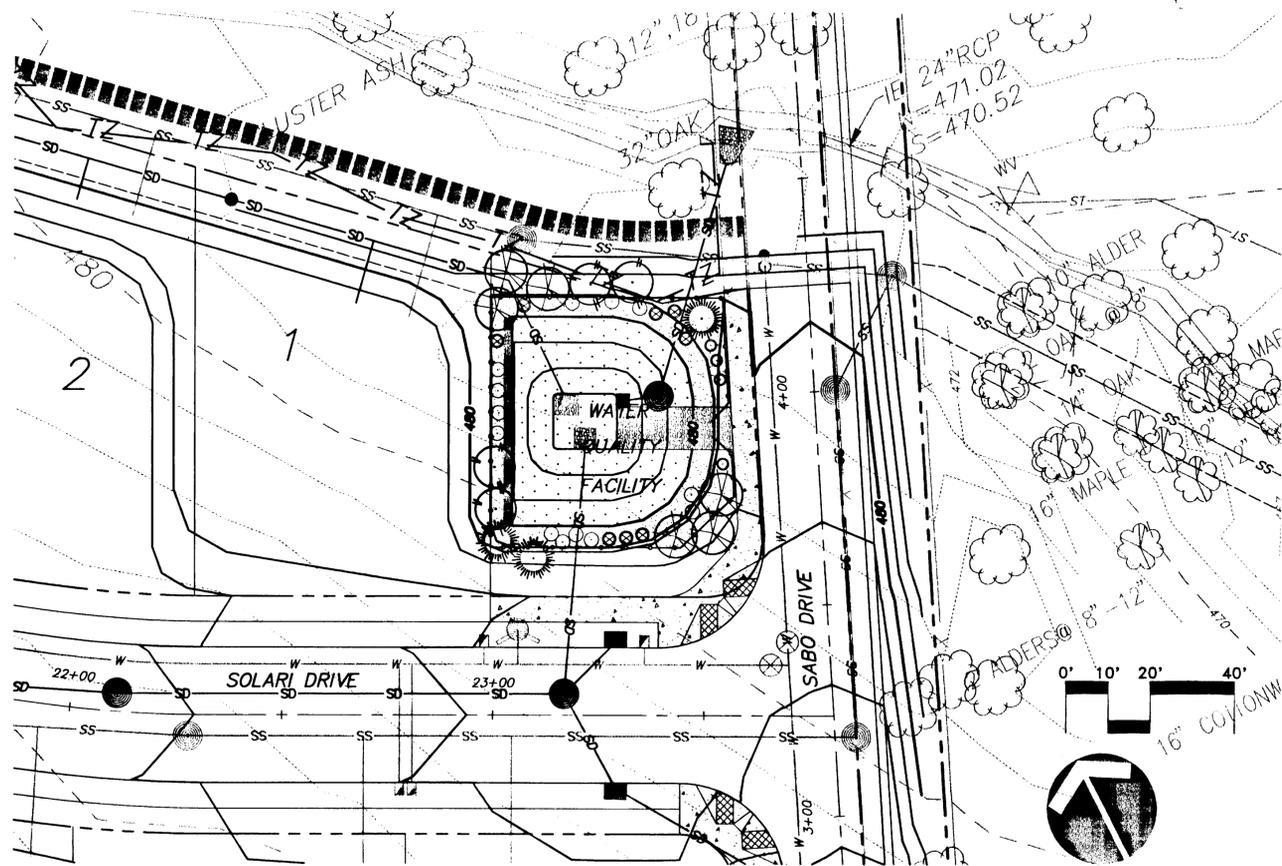
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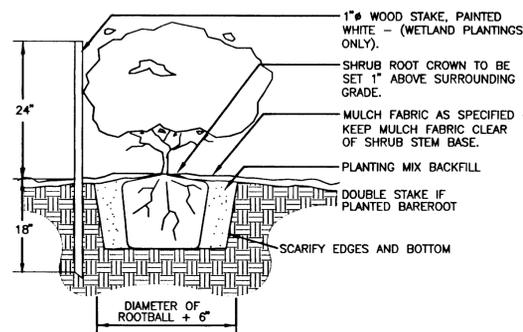


WATER QUALITY FACILITY PLAN

PLANT SYMBOLS AND LIST:

SYMBOL	COMMON/BOTANICAL NAME	SIZE	CONDITION
	BIGLEAF MAPLE/ACER MACROPHYLLUM *	3/4" TO 1" CALIPER	CONTAINER/B&B
	DOUGLAS FIR/PSEUDOTSUGA MENZIESII	2'-3' TALL	CONTAINER/B&B
	BLACK HAWTHORN/CRATAEGUS DOUGLASII *	1/2" TO 3/4" CALIPER	CONTAINER/B&B
	NOOTKA ROSE/ROSE NUTKANA *	18"-21" TALL	CONTAINER/B&B
	RED OSIER DOGWOOD/CORNUS STOLONIFERA *	21"-24" TALL	CONTAINER/B&B
	OREGON GRAPE/MAHONIA AQUIFOLIUM *	18"-21" TALL	CONTAINER/B&B

\* TREES AND SHRUBS CAN BE PURCHASED AND PLANTED BAREROOT BETWEEN THE DATES OF FEBRUARY FIRST AND APRIL 15TH OF THE YEAR.

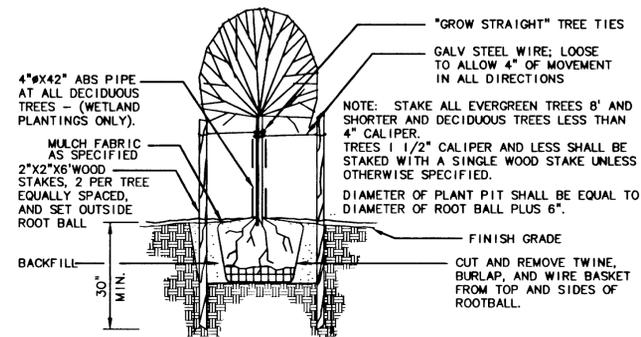


1 SECTION - SHRUB PLANTING NOT TO SCALE

GRASSES:

TYPE 1: SEEDS ABOVE INUNDATED AREAS OF THE SITE. PRO-TIME #400 NATIVE GRASS SEED MIX. SPREAD AT THE RATE OF 30 LBS PER ACRE

TYPE 2: NATIVE BIO-FILTER SEED MIX TO BE PLANTED IN THE INUNDATED AREA OF THE SITE. PRO-TIME #840, SPREAD THE RATE OF 1 LB/1000 SQUARE FEET.



2 SECTION - TREE STAKING AND PLANTING NOT TO SCALE

Date 8/20/99  
 Designed G.S.  
 Drawn G.S.  
 Checked By Date

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ROGERFIELD SUBDIVISION  
 PHASE 1  
 CITY OF WEST LINN, OREGON  
 WATER QUALITY FACILITY  
 PLANTING PLAN



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